

**Univ.-Prof. Dr.-Ing. Carsten Gachot**  
Head of the Tribology Research Group  
Institute for Engineering Design and Logistics Engineering  
Vienna University of Technology (TUW)  
Vienna, Austria



Carsten Gachot, born in Neunkirchen/Saar Germany, 15<sup>th</sup> of March 1978., received his PhD from the Saarland University in Germany in 2012 where he studied the effects of laser interference patterning on the microstructure and topography of metallic surfaces with a focus on tribological applications under Prof. Dr. Frank Mücklich and Prof. Dr. Martin H. Müser. For this work, Dr. Gachot was awarded by the European Honda initiation grant in 2011. Prof. Gachot was academic visitor at the tribology Group at the Imperial College London and is currently the head of the tribology research Group at the Vienna University of Technology. Additionally, Prof. Gachot is a visiting Professor at the Pontifical Catholic University in Santiago de Chile and chief editor of the peer reviewed journal "Industrial Lubrication and Tribology of the Emerald Publishing Group Leeds UK.

**Research Topics:**

- Tribofilm formation in machine elements
- Materials Tribology
- Surface Engineering
- Wear Processes
- Contact Mechanics at different length scales

## **Academic Background:**

- Since 01/2017 Guest Professor at the Pontifical Catholic University (PUC) Santiago de Chile, Physics Department
- Since 10/2016 University Professor (full professor) in Tribology at TU Wien
- Since 10/2016 Area 2 (wear and wear processes) scientific coordinator at AC<sup>2</sup>T
- 02/2016-10/2016 Academic visitor Imperial College London, Tribology Group
- 2009-2014: Principal Investigator in the Steinbeis Research Centre MECS in Saarbrücken, Germany
- 01/2007-02/2016: Group leader “Advanced Surfaces” at the Saarland University
- 2008-2012: PhD Thesis “Laser Interference Metallurgy of Metallic Surfaces for Tribological Applications”, first supervisor: Prof. F. Mücklich, second supervisor: Prof. M.H. Müser
- 2001-2006: Master degree in Materials Science & Engineering (passed with distinction)
- 1999-2001: Bachelor degree in Materials Science & Engineering
- 1989-1998: University entrance diploma in Germany at the Otto-Hahn Grammar School in Saarbrücken

## **Scientific Leadership:**

- Since 01/2018 editorial board member of Wear Journal, Elsevier
- ICMCTF Conference San Diego 04/2017 & 04/2018: Session Organiser Tribology Symposium E13
- Since 12/2017: Member of committee 028 bearings, gears and tools, Austrian Standards
- Since 2015: Editor in Chief Journal “Industrial Lubrication and Tribology” (ILT), Emerald Publishing Group Leeds UK
- MSE Conference Darmstadt Germany 2014, 2016 & 2018: Symposium Organiser for “Surface Engineering and Tribology”
- Leader of the Scientific Committee “Functionalised Surfaces” within the German Community of Materials Science and Engineering (DGM) together with Prof. Dr. A. Lasagni from the TU Dresden

## **Awards:**

- Berthold-Leibinger Innovation Award (Leibinger-Foundation, 2016)
- Honda Initiation Grant Europe 2010
- Henkel Young Scientist Award for the best diploma thesis in Materials Science and Engineering

## **Publications**

<https://www.ikl.tuwien.ac.at/tribologie/publications/>