

## PERSONAL INFORMATION



## Prof. Dr. (IPN) Henning Zoz



Sex: male  
 Date of birth: 01/04/1964  
 Nationality: German  
 Marital status: married, 5 children

## WORK EXPERIENCE

1992 - now

Prof. Dr. (IPN) Henning Zoz  
 CEO & President  
 Zoz GmbH, Maltoz<sup>®</sup>-Strasse, D-57482 Wenden, Germany  
 phone: +49-2762-97560  
 fax: +49-2762-97567  
 email: info@zoz.de  
 www: http://www.zoz.de

2017 - now

Managing Director at Zoz-Mühlenbrock Aviation GmbH, Wenden, Germany

2011 - 2018

Managing Director at Zoz-Harke Aviation GmbH & Co. KG, Wenden, Germany

2010 - 2017

Managing Director at Zoz Mobility GbR, Wenden, Germany

2008 - 2015

Managing Director at Zoz Living GbR, Wenden, Germany

2004 - 2009

Managing Director at Zoz Travel GbR, Wenden, Germany

2015 - 2015

Assistant Professor at Ritsumeikan University, Kusatsu, Japan

2009 - 2014

Professor at Ritsumeikan University, Kusatsu, Japan

2008 - 2015

Implementation and Assessment Committee Member, Overseas Education Program, Ritsumeikan University, Kusatsu, Japan

2004 - now

Invited Professor at CIITEC-IPN, Mexico City, Mexico D. F.

## EDUCATION | TRAINING

2008

Doctoral Degree in Advanced Technology at summa cum laude, CIITEC-IPN, Mexico

1997

Instructor Recognition II by District Government Arnsberg, Germany

1989

Industrial-Master-Metal at Industrial Chamber of Commerce, Cologne, Germany

1988

Welding Engineer DVS, German Welding Association, Germany

1988

Vocational Degree Metal Welder DVS, German Welding Association, Germany

1986

Vocational Degree Dreher at SMS Schloemann Siemens AG, Germany

## CERTIFICATE

2002

process engineering for PhD course, Prof. Dr.-Ing. habil. Johannes Wilden, Technical University of Ilmenau, Germany

2002

materials science for PhD course, Univ. Prof. Dr.-Ing. habil. Bernhard Wielage, Technical University of Chemnitz, Germany

## SCIENTIFIC REFERENCE

2012

for NRW-Innovation Award 2012, Univ.-Prof. Dr. Rüdiger Bormann, President of the University of Bayreuth, Germany

2012

for NRW-Innovation Award, Univ. Prof. Dr. Hans-Jörg Fecht, Director at the Ulm University, Germany

## PUBLICATIONS | PROJECTS

Prof. Zoz holds a number of patents and trademarks, (co)authored more than 50 papers and has been teaching at numerous universities and institutes. Zoz (co-) organized several international conferences and workshops (OZ-symposia, PTECH). He is a member of several international advisory boards and has a long standing history of managing national and international projects in the field of materials science and process engineering being responsible for a number of acknowledged inventions (CMB-materials, cycle operation, NdFeB-magnetic filter system, Zentallium<sup>®</sup>, Hydrolium<sup>®</sup>, H2Tank2Go<sup>®</sup>, ZoLiBat<sup>®</sup>, FuturZement|FuturBeton and other).

## HONOURS | AWARDS

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|------|---|
| 2019 | CONACYT Evaluator Frontier Science 2019 (National Science Council, Mexico)                  |
| 2019 | Hydrogen & Energy Science Award 2019 (Incheon, South-Korea)                                 |
| 2019 | Centra Partija, Riga, Latvia, appointed Chief Advisor Innovation Technology & Development   |
| 2018 | Desiderius-Erasmus-Foundation, appointed to the Board of Trustees (Kuratorium)              |
| 2018 | European Academy of Sciences and Arts, appointed Full Member                                |
| 2014 | Member of the Board of EUREKA Cluster EUROGIA2020   |
| 2013 | Nomination for the German Environmental Award "Power to Gas to Fuel" P2G2F®                 |
| 2013 | PMAI Fellow Award, Mumbai, India  |
| 2013 | Design of EuroNano Award 2013 (Nanotech Europe, Zentallium® & FuturBeton), Dublin           |
| 2013 | Member of the BAST Innovation Arena, German Federal Office for Street-affairs               |
| 2013 | Member of the Board of NMWP Cluster (Nano-Micro-Materials-Photonic)                         |
| 2013 | Member of the Board of "Nano in Germany"  |
| 2012 | Innovation Award Sauerland, Iserlohn, Germany, for H2Tank2Go®-system & infrastructure       |
| 2012 | Ibero-American Silver Award, Zacatecas, Mexico  |
| 2012 | Deputy Chairmen of M-E-NES, demonstration city electro-mobility Bad Neustadt/Saale, Germany |
| 2011 | Manager of The Year, South Westphalia Agency, Iserlohn, Germany                             |
| 2011 | Member of Mobility Experts Group, Ministry of Innovation, Science & Research, NRW, Germany  |
| 2010 | Member of Board of M-E-NES, demonstration city electro-mobility Bad Neustadt/Saale, Germany |
| 2010 | Materialica-Award, Munich, Germany, super light-weight material Zentallium®                 |

## MEMBERSHIPS

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Prof. Zoz is the first non-Korean member of the Korean Powder Metallurgy Institute, a member of the Metal Powder Industries Federation, the German Powder Metallurgy Association, the German Ceramic Society, the German Enamel Association, the Powder Metallurgy Committee of the Chinese Society of Metals, the Powder Metallurgy Association of India as well as a member of the center of excellence in fuel-cells NRW and multiple Cluster organizations. Zoz is one of the founders and main organizers of the International|German-Japanese Symposium on Nanostructures.

## POLITICAL NETWORK

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Mostly due to his pioneering work in nanoscience & engineering for green- and cleantech, Prof. Zoz entertains a major personnel network not only to relevant research & industry but also to political leaders such as ministers, federal ministers, nation Presidents, EU-Commissioners, Ambassadors and Envoys.

CONFERENCE  
CONTRIBUTIONS (2017)

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- Applied Smart Materials for Automotive 2017 (ASM2017), Stuttgart
  - Sigrambia et Alemannia, 65. Stiftungsfest, ceremonial/Festvortrag, Eitorf
  - 102a Reunión de la Asociación Física Argentina (RAFA2017), ceremonial, LaPlata
  - 16th Int. Conf. on Rapidly Quenched & Metastable Materials (RQ16), Leoben
  - EuroNanoForum 2017, La Valletta
  - 24th Int. Symp. on Metastable, Amorphous and Nanostructured Materials (ISMANAM2017), San Sebastian
  - 20. Materials Day VDI, Osnabrück
  - Essener Energieforum 2017, Essen
  - tech transfer Forum HMI2017, Hannover
  - 4th Int. Conf. on Powder Metallurgy in Asia (APMA2017), Hsinshu

## MAJOR ACHIEVEMENTS

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- 2020 First successful set-up of Impulse-Collision-Twin-Gun IPM\*.\*
  - 2019 Alternative Natural Rubber continuous extraction (patents Zoz & Fraunhofer-IME)
  - 2018 Green Recycling of Polystyrene by HKP solid state (EPS, XPS) (co. Prof. Luthe)
  - 2017 PM2000ff, ODS/NFA SF products (co. UCSB, ORNL, KIT, Quintus etal.)
  - 2016 First commercial complex reactive MH H<sub>2</sub>-tank (LiBH<sub>4</sub>+MgH<sub>2</sub>, co. with HZG)
  - 2015 Dandelion rubber generation in pre-industrial scale (co. Fraunhofer IME)
  - 2014 Nanostructured Ferritic Alloy 14YWT in pre-industrial scale (co. GE)
  - 2013 Invention of Stromkoffer|IronBird (solid-state Hydrogen power-box, co. Airbus)
  - 2012 First public bridge by nanostructured cement (FuturBeton, co. Uni Sgn, Dyckerhoff)
  - 2012 Design/model Power to Gas to Fuel (P2G2F<sup>®</sup>)
  - 2011 Design/model of baseload-able renewable power-plant
  - 2010 HKP-processing of 3gen. Li-Ion cathode (ZoLiBat<sup>®</sup> co. with HPL, CEA & Prayon)
  - 2010 Invent & commercializing RT-MH H<sub>2</sub>-tank (H2Tank2Go<sup>®</sup>)
  - 2009 Invent & commercializing Al-CNT composite bulk (Zentallium<sup>®</sup>)
  - 2002 Solid state decontamination of Dioxin in pre-industrial scale (co. Univ. Oldenburg)
  - 2001 Modeling flake-/solid solution formation Ag-Cu (DMF), modeling MA
  - 2000 Design & commercializing NdFeB high performance magnetic filter
  - 1997 Semi-continuous HKP-DMF in industrial scale (co. Fukuda Japan)
  - 1996 Invention semi-continuous HKP, carrier-gas model
  - 1996 Design/invention of HKP-operating software (MALTOZ<sup>®</sup>)
  - 1996 Invention of cycle-operation for HKP
  - 1995 Invention of Ask draingrating, multiphase flow separation under vacuum
  - 1995 Invention of ceramic milling tools in HKP
  - 1994 Design/commercializing industrial HKP (High Kinetic Processing, Simoloyer<sup>®</sup>)