

University Academic Curriculum Vitae

- Personal information** Name **Medzid Muhasilovic**
Place and date of birth: **Trebinje, 25. January 1972**
Nationality: **German**
Address: **Hans-Böckler Platz 7, 45468 Mülheim, Deutschland**
Telephone numbers:
 - Mobile: **0049 151 1816 2841**
 - Viber & WhatsApp: **00387 65 145 282**
 - Office: **00385 99 696 4328**E-Mail: **muhasilovic@gmail.com**
- Education since leaving school**
- **1998 Diplom-Ingenieur (University Essen, Germany)**
 - **1999 post-Diplom (ETH Zürich, Schweiz)**
 - **2004 Technical Chemistry, PhD (University Duisburg-Essen)**
 - **2008 Post-Doc, CFD-based exploring (EPFL Lausanne, Suisse)**
- Present appointment**
- **Scientific Lecturer**
 - **March 2015**
 - **Ass. Prof. - (high-Educational Lecturer)**
 - **The Rhine-Waal University, Kleve, Germany, Faculty Technology and Bionics**
 - **Knowledge Transfer of Computer-Based Technologies**
- Professional experience as well as Experience in academic teaching**
- POSITIONS HELD:**
- since 03 / 2015 Scientific Lecturer at the Rhein-Waal University, Germany
- Summer-break/2015 Preparation of the EU-requests for the county of Podgora, Croatia
- Winter-Semestre 2015/2016 Croatia (sabbatical leave)
- 10/2014 – 05/2015 CFD-based research of industrial reactors, Free University of Brussels, Belgium
- Summer-break / 2014 Preparation of the EU-requests for the county of Podgora, Croatia (sabbatical leave)
- 10/2010 – 06/2014 Founder and head of department for Computer-Aided Modelling at the IPSA-Institute, Sarajevo, Bosnia (within the a German development program)
- 04/2010 – 09/2010 A head of Technology-park of the Zenica-City , Bosnia, within a German development program
- 04/2006 – 02/2010 Post-Doc, CFD-based research at the EPFL Lausanne, Head: Prof. Dr. Michel Deville
- 09/2008 – 12/2009 Post-Doc, CFD-based research at the University in Ljubljana, Slovenia Head Prof Dr Brane Sirok
- 06/1998-04/2006 Teaching and Research assistant, University of Essen, Institute for Energy Technology Research Area: Applied reactive fluid mechanics
- 01/2000 – 04/2004 Teaching and Research assistant, Institute for Inorganic Chemistry and Material Sciences, University of Essen Head Prof. Dr. Günter Schmid

- 06/1996 – 01/1998 Research student, Institute for Ergonomics, University of Essen, Head: Prof. Dr.-Ing. Klaus Wieland "Integration of persons with disorders into the work"
- 01/1998 – 05/1998 Research student, Institute for Energy Technology, University of Essen, "Technical and Economical Comparison of Gas Turbines"
- 08/1998 – 05/1999 Research and Teaching Assistant Guest at the Institute for Energy Technology ETH Zürich. Switzerland Research Area: CFD Simulation of Combustion Processes and Fluid Dynamics

Participation in exhibitions (where applicable)

PLANNED AND VISITED CONFERENCES, SEMINARS, GIVEN TALKS:

- 06/2018 „CFD-based observation of natural air-movement in Sarajevo-valey“ M. Muhasilovic, K. Sehbajraktarevic, M. Dzafo, Z. Krvavac, A. Selmanovic, E. Tanovic, K. Ciahotny, B, Sirok at the *“International Aerosol Conference AT 2018, 18th - 20th June 2018 Bilbao, Spain*
- 06/2018 „Importance of investigation on wind-strokes over the cable-car’s Infrastructure in mountain-region“ M. Muhasilovic, K. Sehbajraktarevic, M. Dzafo, Z. Krvavac, A. Selmanovic, E. Tanovic, K. Ciahotny, B, Sirok at the *„Days of American - BosnianHerzegovinian Academy of Arts ans Sciences“*, 22nd - 24th June Sarajevo, Olympic Mountain of Jahorina, Bosnia and Herzegovina
- 05/2017 „Safety of plasma flow“, M. Muhasilovic, I. Vela. E. Nisic, at the SAFERA-conference: „Coordination of European Research on Industrial Safety towards Smart and Sustainable Growth“ 18.19. May 2017 Bilbao, Spain
- 05/2015 “Decision of precise grid-disposal and/or near-wall-meshing in computational domain during CFD-based exploration on micro-reactor’s geometry” at - 17th International Conference on Computational Methods and Experimental Measurements, 5th - 7th of May 2015, Opatija, Croatia
- 04/2015 “Large-Scale Flow Phenomena – CFD at Land, Sea and Air”, a lecture at – Himmelb(L)au Architects, Vienna, Austria
- 05/2014 “CFD-based investigation of wind-strokes over high-way-bridge in the section “Počitelj – Zvirovići (BH)” at Conference - Modern trends in traffic, logistics and ecology for sustainable development, 23-24th May, 2014, Mountain of Vlasic, BH
- 10/2013 “Gaseous propagation in a railway tunnel: grid-independency while cfd-based research” at Conference - Future Safety and Security Research in EU, 26-28th Octobre 2013, Prague, Czech Republic
- 09/2012 “Propper choice of model for turbulence treatment while research on flow in large- scale CFD-domain“ at ECCOMAS 10 – 14.09, 2012 Vienna, Austria
- 09/2012 “Effects of double-glass-facade – a CFD-based research” at the “Sarajevo Green Design Festival 2012, the 1st International Green Design Conference - Green Cities, Buildings and Products“ Sarajevo, BH, Septembre 27-30, 2012
- 05/2012 “CFD at land, sea and air” a guest Lecture at the IUS - International University of Sarajevo, BH
- 11/2011 “Large-Scale -CFD – cases of ventilation and electricity production” a guest Lecture at the “Paul Scherer Institute”, Switzerland

06/2011 "Large-Scale Computational Domains - CFD-applications for tunnel-ventilation" at the ITA-Conference : "New Austrian Tunneling Method", Sarajevo, Bosnia and Herzegovina

05/2010 "Response of Ventilation in Case of 40MW and 80MW Tunnel-Fire – The CFD Investigation" at the Tunnel safety and ventilation Conference - New Developments in Tunnel Safety – Graz, Austria

09/2009 "CFD in Großraumarealen – Tunnelfeuer und Unterturbinen (Jeudi des Sciences)" – A guest Lecture, Faculty of Science, Technology and Communication (FSTC) Universite du Luxembourg.

06/2009 "Both LES and k-e turbulence-treatment in CFD-approaches for creation of the database on flare-stacks-flame" The IFRF's 16th International Members' Conference, Boston, USA

10/2008 "Fire induced damage in structures and infrastructure: analysis, testing and modeling", at the NATO Advanced Research Workshop, Sarajevo, Bosnia and Herzegovina

03/2008 Computer aided research on large-scale fires in enclosure of a power-transformer unit: consequences, suppression methods" – A guest lecture, Universita di Genova, DICheP - Dipartimento di Ingegneria Chimica e di Processo, Genova, Italy

09/2007 "CFD-approach in investigation of consequences of accidental large-scale fires in road tunnels with natural ventilation" at the 5th International Mediterranean Combustion Symposium, Monastir, Tunisia

Other academic responsibilities

- Mentorship of the B.Sc.-final-Theis (Student David Duque at the Rhine-Waal University, Student Jasdev Singh at the Rhine Waal University, Student Aida Buljubasic at the SSST - Sarajevo School of Science and Technology)
- Scientific Editor of the BHAAAS-Congresses (Bosnian-American Academy of Arts and Sciences)
- Official Reviewer ("Referee") for Journal "Tunneling and Underground and Space Technology"

Memberships

- ASME Member (Member # 8741035)
- Official Reviewer ("Referee") for Journal "Tunneling and Underground and Space Technology"
- . Member at VDI - Verein Deutscher Ingenieure (Nr. 11210888)

Research and scholarships

GRANTS, REWARDS AND SCHOLARSHIPS:

10/1997 – 05/1998 „Support for Outstanding Students“ University of Essen, Germany

10/1994 – 05/1998 Rheiinstahl – Foundation, Thyssen AG, Essen, Germany

05/1998 HANIEL-Foundation, Duisburg, Germany

01/1997 – 09/2000 German Council for Science, Essen, Germany

10/2000- 12/2000 The Penguin Foundation – Henkel KGaA, Dusseldorf, Germany

07/2004 M.A.N.- Foundation, Munich, Germany

03/2003 – 09/2003 Friedrich Flick Foundation, Dusseldorf, Germany

12/2003 "Rotary Club" Award, Arnsberg, Germany

11/2004 Award by the H.E. Mr. Abdulhamid, A.A. Al-Awadhi, the Ambassador of the Sate of Kuwait, Berlin, Germany

06/2005 DaimlerChryslerFonds, Essen, Germany

FUNDED RESEARCH:

- 10/2010 – 06/2014 Grant by German Development Agency
Setting up a CFD-department at IPSA-Institute, Sarajevo
- 04/2010 – 09/2010 Grant by German Development Agency
Setting up a Technology-Park at the city of Zenica
- 04/2006 – 02/2010 Grant by the Heinrich Hertz Foundation,
Dusseldorf Germany for the postDoc-studies
at the EPFL Lausanne
- 11/2001 - 07/2004 Grant by M.A.N. Foundation Munich
Finishing off the Ph.D. Studies
- 10/2002 – 05/2003 Support by BAYER AG Leverkusen, Germany
The Main Scientific Laboratory
- 10/2001 – 09/2002 Grant by Degussa-Hermann-Schlosser-
Foundation, Frankfurt, Germany, for Young
Investigator at University of Essen
- 08/1998 – 05/1999 Guest-research-assistant at the Department for
Energy Technology at the ETH-Zürich
Computational simulations of turbulent
combustion
- 10/1993 – 05/1998 The O.S.I. – George Soros Fund, New York,
U.S.A. Grant, Student-Investigator,
University of Essen PIV – Particle Image
Velocimetry

Publications

PUBLISHED AND PLANNED PAPERS, PROCEEDINGS, BOOKS (CHAPTERS)

05/2017 „Safety of plasma flow“, M. Muhasilovic, I. Vela, E. Nisic, at the SAFERA-conference: „Coordination of European Research on Industrial Safety towards Smart and Sustainable Growth“ 18.19. May 2017 Bilbao, Spain

04/2015 “CFD-based Investigation of Wind-Stroke over Highway Bridge-Section” by M. Muhasilovic, K. Imsirpasic, K. Cihotny, B. Sirok, book-chapter, NEW PERSPECTIVES IN FLUID DYNAMICS (in print)

03/2012 „Air Movement Within Enclosed Road-Objects with Contra-Traffic, a CFD Investigation” by M. Muhasilovic, A. Mededovic, E. Gacanin, K. Cihotny and V. Koza, book-chapter, APPLIED COMPUTATIONAL FLUID DYNAMICS ISBN: 978-953-51-0271-7 <http://www.intechopen.com/statistics/31929>

01/2012 “CFD-Based Investigation of the Response of Mechanical Ventilation in the Case of Tunnel-Fire” M. Muhasilovic, J. Duhovnik, in JOURNAL OF MECHANICAL ENGINEERING, Vol 58, No 3 (2012) http://en.svjme.eu/data/upload/2012/03/05_2009_091_Muhasilovic_04.pdf

06/2010 “Tidal Turbine Deployment in the Bristol Channel – A Case Study” A. J. Williams, T. N. Croft, N. Bouwmann, M. Cross and M. Muhasilovic, PROCEEDINGS OF THE INSTITUTE OF CIVIL ENGINEERS - ENERGY, Volume 163, Issue 3, (2010) pages 93 –105 ISSN: 1751-4223, E-ISSN: 17514231 <http://www.severnestuary.net/sep/pdfs/ecsa/10ncroft.pdf> <http://www.swan.ac.uk/engineering/marineenergy/publications> <http://www.icevirtualibrary.com/content/article/10.1680/ener.2010.163.3.93>

12/2009 "Both LES and k turbulence-treatment in CFD-approaches for creation of the database on flare-stacks flame-behaviour", M. Muhasilovic, J. Duhovnik, K. Cihotny, V. Koza, PROCEEDINGS OF THE IFRF'S 16TH INTERNATIONAL MEMBERS' CONFERENCE, Boston, USA

02/2009 "Fire induced damage in structures and infrastructure: analysis, testing and modelling" A. Ibrahimbegovic, M. Muhasilovic, et. Al., a book-chapter in DAMAGE ASSESSMENT AND RECONSTRUCTION AFTER WAR OR NATURAL DISASTER, Springer, Berlin, (ISBN : HB 978-90-481-2385-8, PB 978-90-481-2384-1, E-book 978-90-481-2386-5) © 2009 Springer <http://www.lw20.com/2011032817317281.Html>

10/2008 "Investigation of large-scale accidental fire in (power electricity) objects and the effect of the prompt ventilation of the gaseous combustion products : the CFD investigation" , M. Muhasilovic, I. Bosto, A. Kamenica, D. Vlahovljak, K. Cihotny, V. Koza, PROCEEDINGS of the NATOADVANCED RESEARCH WORKSHOP, Sarajevo, BH

12/2007 "Tunnel-curvature's influence on the propagation of the consequences of large-scale accidental fire" M. Muhasilovic, M. O. Deville, in TURKISH JOURNAL of ENGINEERING and ENVIRONMENTAL Sciences. ISSN 1300-0160. – Vol 31, No. 6 (2007), <http://mistug.tubitak.gov.tr/bdyim/abs.php?dergi=muh&rak=0712-1>

Further data

SOCIAL ACTIVITIES:

05/2007 Guest-Lecturer to the Round Table Club, Essen, by the appointment of Dr. Markus Gawlowski, Dipl.-Ing.

12/2003 Guest-Lecturer to the Rotary Club Arnsberg, by the appointment of Mr. Neuhaus, the club-president

10/1999 Guest-Lecturer to the Rotary Club, Essen, by the appointment of Dr. Med. Edmund Meyer-Schwickerath

EXTRA UNIVERSITY ACTIVITIES:

Writing stories, playing sports, and enjoying the family life by supporting the parents

Entrepreneurship

German Patent No. 103 22 271.5

Statement of interest

RESEARCH INTEREST:

Large-Scale CFD-domains and belonging crosstalk of phenomena occurring in (even, reacting) fluid-flow

EXPERTISE:

CFD-based research of large-scale fluid-flow (both reactive fluids in enclosures and non-reacting flows)

REASON FOR TEACHING:

My on-going wish to transfer the Knowledge to younger Generations

ADDITIONAL IT SKILLS:

Excellent command with sophisticated scientific software for running of CFD-based both pre-processing and evaluative software for simulation of fluid phenomena (CFX®, FLUENT®)

Language competence

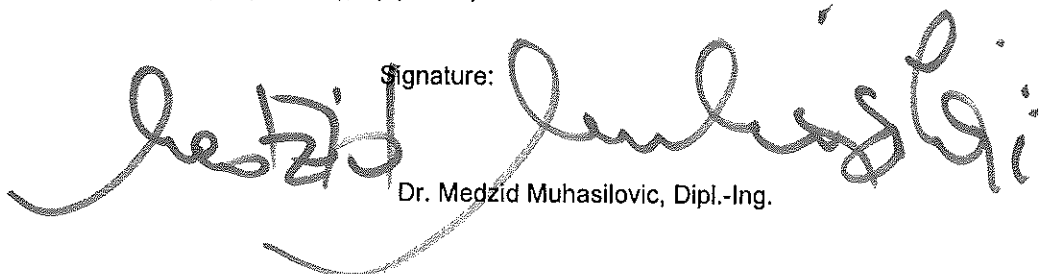
WRITTEN AND SPOKEN LANGUAGE-COMPETENCE

(„5" - THE BEST, „1" - THE WORST)

German: 5(written) 5(spoken), English: 5(written), 5(spoken), Italian: 4(written), 4(spoken), French: 3(written), 3(spoken), Serbocroat(Bosnian): 5(written), 5(spoken)

Date: 09. 08. 2018

Signature:



Dr. Medzid Muhasilovic, Dipl.-Ing.