

Curriculum Vitae

Name: Dr. Daniel Bengtsson Blücher
Date of birth: July 16, 1975
Nationality: Swedish
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Working experience

- 2014(May)-- **SINTEF (Scandinavia's largest research institute), Trondheim, Norway**
- Head of the department for Corrosion and Tribology (12 persons, 2,5MEUR turnover). Responsible for employees, salary, economy, sales and 500m² laboratory.
 - Head of the department Flow Technology (30 persons, 6MEUR turnover, 100m² laboratory)
- 2005-2014 **AUDI AG, R&D, Entwicklung Gesamtfahrzeug, Ingolstadt, Germany**
- Coordination of the R&D activities on the choice of materials, surface treatment and corrosion protection development, leading a group of 4 persons.
 - Platform developer Modular Sportscar System (Audi R8 and Lamborghini Gallardo/Huracán, Sant Agata).
 - SET leader Audi A1 (Brussels), Audi A8, Bentley Continental, Porsche Panamera. including budget responsibility (SAP-based) on corrosion protection, surface treatment (including simulation), water tightness and finally paint including implementation according to the given budget.
 - Validation of the product and process in the INKA-test.
 - Responsibility for 3 Ph.D. student and 4 M.Sc. students – collaboration with TU Wien, TU Erlangen
- 2000-2006 **Technical consultations through own Company (corrosion and failure analysis)**
Customers among others: Audi AG, Midorion AB, IFP Research AB, PM Luft AB, Inter Active Group AB, CaddyClean AB, Promed GmbH.
- 2000-2005 **Department of Chemical and Biological Engineering, Chalmers University of Technology, Gothenburg, Sweden**
Ph. D. student in Materials Science. Atmospheric corrosion of Aluminum and Magnesium alloys financially supported by the EU project "Mg-Chassis", Volvo Car Corporation and the Swedish Research Council.
- 1998-1999 **Föreningsparbanken, Gothenburg, Sweden**
Retail banking employee. Stockbroker assistant.
- 1994-1997 **DHL, Graz, Hannover and Gothenburg**
Internship; building a windows based statistical turnover analysis tool.

Education

- 2016-2017 **Talent program for selected leaders at SINTEF "God Ledelse i SINTEF"**
- 2011 **Private University of Applied Science in Göttingen, Germany**
Certified Composite Engineering Specialist (CFK, GFK, Faserverbundwerkstoffe)
- 1994-2001 **Gothenburg School of Economics and Commercial Law, Sweden**
Master of Science in Business Administration, majoring in finance.
- 1996 -2000 **University of Gothenburg, Sweden**
Master of Science in Chemistry, majoring in materials chemistry.
- 1997 **Karl Franzen Universität, Graz, Austria**
Exchange semester within the Masters Program in International Business. Finance studies

Patents pending

- 2013 14461: Vorrichtung zur on-line monitoring von Korrosionsprozessen in-situ im Auto
- 2013 1478154: Corrosion protection of CFRP-Aluminum joints
- 2013 14914: Passivierender Korrosionsschutzprimer für Mg und Mg-Legierungen
- 2013 15194: Passivierender Korrosionsschutzprimer für Al und Al-Legierungen

Affiliations

- 2016- NACE member

2005-2014 VDI member
2005- Member of the GFK, *Gesellschaft für Korrosionsschutz e.V.*
2005- Board member of Aeroclub Greiding, Gauldal Seilflyklubb *hobby pilot*

Language skills

Swedish mother tongue
English, German fluent
Norwegian, Danish good
Italian basic

Computer skills

Catia v5, v4, Enovia DMU, ANSA, FEM sim. tools from ANSYS, MS office, SAP, Esprit, BTE, AVON, VDSwin, Paint Shop Pro, Illustrator, Dreamweaver, HTML, Test Point, Sigma Plot, Maconomy, Analytix and MultiPak

Dr. Daniel Bengtsson Blücher, Trondheim, Norway, 02-2018



Reference: Prof. Dr. Jan-Erik Svensson, Head of the Division for Energy and Materials, Chalmers, tel: +46 31 7722863, jes@chalmers.se
References from Audi AG, Lamborghini, Volkswagen, Bentley und Sintef upon request

Publications and selected talks

- 2017 **Novel passivating anticorrosive Primer for Mg and Al alloys (86936)**, Eurocorr, 20th ICC & Process Safety Congress 2017
- 2016 **A new centrifugally cast austenitic Ni-base alloy suitable for severe sour service heavy wall thickness piping application**, Eurocorr 2016, O-57127
- 2016 **Characterization of different corrosion protection systems on magnesium alloys for applications in the automotive industry**, Eurocorr 2016, O-66052
- 2016 **New insights into the corrosion of magnesium alloys — The role of aluminum**, Scripta Materialia 115 (2016) 91–95
- 2016 **A New Cast Ni-base Alloy Suitable for Severe Sour Service**, NACE 2016 C2016-7475
- 2016 **Chairman at Automotive Corrosion Protection 2016** in Berlin 16-17.02. Talk: "The influence of SO₂(g) on the atmospheric corrosion of Mg-Al alloys"
- 2015 **Atmospheric corrosion of Mg alloy AZ91D fabricated by a semi-solid casting technique - The influence of microstructure**, J. Electrochem. Soc. 2015 volume 162, issue 7, C311-C321
- 2015 **The influence of SO₂ on the corrosion of Mg and Mg-Al alloys**, J. Electrochem. Soc., 162 (6) C260-C269 (2015)
- 2015 **Achieving Superior Corrosion Resistance in Friction Stir Processed AA6005-T6 Aluminum Alloy Joints (C1-0702)**, accepted by Journal of Electrochemical Soc. Transactions
- 2015 **VDI Wissensforum Korrosionsschutz im Automobilbau 16-17.06** Talk: "The influence of SO₂(g) on the atmospheric corrosion of Mg-Al alloys"
- 2015 **The influence of Ca²⁺ in de-icing salt on the chemistry of corrosion products formed on AM50 magnesium alloy – calcareous deposition**, accepted by Corrosion, <http://dx.doi.org/10.5006/1539>
- 2014 **The influence of Ca²⁺ in de-icing salt on the corrosion behavior of AM50 magnesium alloy**, accepted by Corrosion
- 2014 **Atmosphärische Korrosion von MgAl-Legierungen – Der Effekt von Tausalz-Zusammensetzungen Mg-Legierung (AM50), Karosseriestruktur, CaCl₂-Einfluss, Laboruntersuchung vs. INKA-Test**, 3-Länder-Korrosionstagung, Linz, Austria
- 2013 **Entwicklung Korrosionsschutz von Leichtbau in Mischbauweise mit Magnesium**, Treffen der Korrosionsschutzverantwortlichen im VW Konzern, Poznan, Poland
- 2013 **Corrosion protection development of joining with CFRP-Al in the car body**, Fifth International Seminar in the Field of Automotive Corrosion, May 28-29, 2013, Stockholm, Sweden
- 2012 **Challenge of joining and surface technologies for light weight constructions in automobile applications** Materials Science and Engineering Technology, 2013, 44, No. 1
- 2010 **Evaluation of New Coatings Through On-Line Measure of the Corrosion Progress In-Situ** *Keynote* at Automotive Corrosion in Stockholm, Sweden
- 2009 **Critical Factors in the Galvanic Corrosion of Aluminum and Galvanised Steel** 216th ECS Meeting, Abstract #1693, J. Electrochem. Soc.
- 2009 **Monitoring of electrochemical parameters during cyclic salt spray tests** Proceedings of EUROCORR 2009, paper no. SS 16-O-8386.
- 2008 **Investigations on the Corrosion of Steel-Aluminum Joints**, 214th ECS Meeting - Honolulu, HI, USA
- 2005 **The influence of CO₂, AlCl₃·6H₂O, MgCl₂·6H₂O, Na₂SO₄ and NaCl on the atmospheric corrosion of aluminum** Corr. Sci. 48 (7) 1848-1866 (2006), 48 (7)
- 2005 **The Influence of SO₂ on The Atmospheric Corrosion of Mg and Mg-Al Alloys** Submitted to J. Electrochem. Soc. Rework and submission of reviewed paper 2014
- 2005 **Influence of ppb levels of SO₂ on the Atmospheric Corrosion of Aluminum in the Presence of NaCl** J. Electrochem. Soc. Vol. 152 (10) (2005)
- 2004 **Scanning Kelvin Probe Force Microscopy, a Useful Tool for Studying Atmospheric Corrosion of Mg-Al Alloys in-situ** J. Electrochem. Soc. Vol. 151 (2004) pp B621-B627
- 2002 **Carbon Dioxide; the Unknown Factor in the Atmospheric Corrosion of Aluminum?** Proceedings of the 15th Intl Corrosion Congress in Granada, 2002

- 2002 **The NaCl-Induced Atmospheric Corrosion of Aluminum; the Influence of Carbon Dioxide and Temperature**
J. Electrochem. Soc. Vol. 150 (2003) pp B93-B98
- 2000 **The Effect of CO₂ on the NaCl-Induced Atmospheric Corrosion of Aluminum**
J. Electrochem. Soc. Vol. 148 (2001) pp B127-B131

Internal education at Audi AG

Interne Weiterbildung

gültig ab	gültig bis	Seminarnr.	Seminarbezeichnung
25.06.2013	28.06.2013	64049001	Reflexion der eigenen Person
17.04.2013	18.04.2013	518256	Fertigungsverfahren und Qualitätssicherung in der Faserverbundtechnologie
03.09.2012	05.09.2012	64113008	Komplexe Arbeitssituationen erfolgreich gestalten
11.01.2012	30.01.2013	52027003	Italienisch Einzeltraining - CEF A1
28.06.2011	29.06.2011	518440	Grundlagen der Klebtechnik
06.04.2011	06.04.2011	10111003	Grundlagen der Faserverbunde
14.02.2011	17.02.2011	517545	Composite Engineering Spezialist Modul 1 und 2
26.10.2010	26.10.2010	14295022	Landesspezifische Erprobung in den internationalen Märkten (Schwerpunkt USA)
20.09.2010	20.09.2010	14295007	Leichtbau im Spannungsfeld zwischen Sportlichkeit und Verbrauch
31.08.2010	03.09.2010	64049002	Konfliktseminar I: Mein persönlicher Umgang mit Konflikten
21.06.2010	23.06.2010	64049009	Überzeugend Auftreten und Wirken
18.05.2010	18.05.2010	00016028	PVC in Theorie und Praxis
04.05.2010	09.05.2010	513082	Automotive Corrosion (Vortrag)
16.03.2010	16.03.2010	10SOF021	Einführung in Fahrzeugakustik und Schwingungskomfort
21.10.2009	23.10.2009	63036048	CATIA V5 Refresh
20.10.2009	20.10.2009	10SOF019	Technische Grundlagen zum Hybridantrieb
05.10.2009	05.10.2009	511230	ECS Korrosionstagung
30.09.2009	02.10.2009	14046017	Teams und Arbeitsgruppen koordinieren
18.06.2009	19.06.2009	518564	Metall oder Kunststoff... unterschiedliche Konzepte - gleichwertige Ergebnis
12.02.2009	12.02.2009	10SOF015	Fügetechnik in Karosseriebau und Montage bei Audi
04.02.2009	04.02.2009	10SOF013	Übersicht, Inhalte und Abläufe in BTE (Bauteilentwicklung)
04.12.2008	05.12.2008	06060470	MS-ACCESS Modul 3 Datenbankentwurf und Realisierung
12.11.2008	12.11.2008	66XIP026	Esprit für Kostenstellenplaner
15.05.2008	17.06.2008	64050003	Argumentieren-Verhandeln-Überzeugen (Grund- und Aufbau-seminar)
01.04.2008	01.04.2008	10SOF016	Entscheidungswege bei Audi für EG
21.05.2007	23.05.2007	64050010	Gesprächstraining
23.04.2007	25.04.2007	64052022	Projektmitarbeiter und -teams zielgerichtet führen
15.01.2007	19.01.2007	63036033	CATIA V5 Modelhandling
21.09.2006	21.09.2006	64052028	PP-Qualifizierung: Trainingstag
11.07.2006	13.07.2006	63036006	CATIA / Enovia DMU Navigator/Space Analysis

Kurzbiografie Dr. Daniel Blücher, 00309484

Stand: 29.01.2014

Ersteller: Dr. Daniel Blücher