

CHRISTIAN VOLKER GOEBBERT

PERSONAL DATA

Address:

Dorfstrasse 42,
D-63863 Eschau,
Germany

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E-Mail: christian.goebbert@kho-goebbert.com

Date of Birth: 14th November 1970

Place of Birth: Saarbruecken, Germany

Nationality: German

Status: Married, 2 children (8 &13)

PROFESSIONAL DEVELOPMENT

November 2014 - present

Nanostone Water GmbH, Germany

Chief Science Officer, Managing Director

- Responsible for scientific research operations, development and development engineering and production
- Responsible for internal intellectual property creation and competition monitoring Responsible for the overall administration of the company branch in Germany
- Co-ordination of administrative/financial and sales/research & development activities with the US mother company

March 2012 – November 2014

KSM Water GmbH, Germany

Managing Director

- Responsible for the overall administration of the company branch in Germany
- Responsible for development and production
- Co-ordination of administrative/financial and sales/marketing activities with the US mother company and investor

January 2010 – March 2012

3C Membrane AG, Halberstadt, Germany

Chief Technical Officer (CTO)

- Responsible for scientific co-ordination between sales and research & development departments
- Responsible for quality assurance
- Responsible for quality management according to ISO EN DIN 9001
- Responsible for production, process optimisation and scale-up

June 2009 – December 2009

KGC – Kho-Goebbert Consulting GmbH, Germany

Managing director

- Consulting of companies, public institutions and persons in the field of technology-, production and sales support, specialised in the area of nanotechnology.

January 2007 – June 2009

ItN Nanovation AG, Saarbruecken, Germany

Scientific Head of business unit Ceramic Coatings

- Responsible for scientific co-ordination between sales and research & development departments
- Responsible for research & development department of Smart Coatings
- Responsible for business development of NanoCat (catalytic ceramic coatings) and Smart Coatings. This involves identification, acquisition and support of new customers, and negotiation of new contracts.

November 2004 – June 2009

ItN Nanovation AG, Halberstadt, Germany

Scientific factory manager

- Responsible for quality assurance
- Responsible for quality management according to ISO EN DIN 9001
- Responsible for process optimisation and scale-up

August 2003 – October 2004

ItN Nanovation GmbH, Saarbruecken, Germany

Head of department Smart Coatings

- Responsible for development of new functional coating systems
- Responsible for business development which involves identifying new business/customers and negotiating new contracts
- acquisition and support of customers in this business field

February 2001 – October 2004

ItN Nanovation GmbH, Saarbruecken, Germany

Head of department for Synthesis of Nanoscaled Ceramic Powders

- Responsible for development of new production process for continuous synthesis of nanoparticles
- Responsible for business development which involves identification, acquisition and support of new business partners/customers and new contract negotiations

January 2000 – January 2001

Institut fuer Neue Materialien gem. GmbH, Saarbruecken, Germany

Ceramic Department

Project and group leader

- Acquisition and realisation of industrial projects
- Supervision of project collaborators and Ph.D. students

February 1996 – December 1999

Institut fuer Neue Materialien gem. GmbH, Saarbruecken, Germany

Department of Coating Technology

Project leader

- Acquisition and realisation of industrial projects
- Supervision of project collaborators

August 1994 – January 1996

Institut fuer Neue Materialien gem. GmbH, Saarbruecken, Germany

Department of Coating Technology

- Responsible for realisation of industrial projects

EDUCATION

November 1996 – January 2001

Doctor of Philosophy (Ph.D.)
Institut fuer Neue Materialien gem. GmbH, Saarbruecken, Germany
Coating Technology & Ceramic departments

Research topic:

Synthesis of Nanoscaled Semiconducting Oxides - $In_2O_3:Sn$ (ITO) and $SnO_2:Sb$ (ATO) for the Preparation of Transparent Coatings

October 1990 – August 1996

Master of Science
University of Saarland, Saarbruecken, Germany,
Department of Chemistry

Master thesis at Institut fuer Neue Materialien gem. GmbH in Saarbruecken, Germany, Department of Coating Technology:
Preparation and Characterisation of Transparent Conducting Antimony Doped Tin Oxide Coatings Using Nanodispersed Coating Solutions

STUDIES ABROAD

April 1994 – June 1994

Exchange Student
University of Surrey, Guildford, UK

Final year project:

Synthesis of Heme-Based Enzymes

ADDITIONAL QUALIFICATION

- Quality Management Representative with TÜV certificate
- Diverse training courses for communication

ADDITIONAL PROJECTS

May 2007 – June 2007

Evaluation expert of framework program for European Commission:
7th Framework Program for Research, Technological Development and Demonstration

April 2007 – present

Active committee member of Federal Ministry for Environment, Nature Conservation and Nuclear safety (BMU), Germany:
Chances for Environment and Health

September 2006 – October 2006

Evaluation expert for framework program of Federal Ministry of Education and Research (BMBF), Germany:
Nano Goes to Production

November 2005 – present

Responsible project manager for BMBF promoted study, ItN Nanovation AG, Germany:
Responsible Use and Production of Nanoscaled Particles (NanoCare)

- September 2003 – September 2005* Person-in-charge for Federal Environment Foundation (DBU) promoted project ICBIO (Innovation Center Biocatalysis), ItN Nanovation AG, Germany:
Application of Efficient Expression Systems and Membrane Processes for the Production of Bio-Catalysts of Extremophilic Micro Organism (AZ 13092)
- September 2003 – present* Active committee member in Dechema AG, Germany of:
Responsible Use and Production of Nanoscaled Particles
- September 2003 – present* Active committee member in Dechema AG, Germany of:
Communication Nanotechnology
- March 2001 – March 2005* Project manager for *Perfumery Delivery Systems Based on Nano Silica Particles*, ItN Nanovation AG, Germany. This was accomplished in co-operation with an industrial partner.

LANGUAGES

- German mother tongue
- English fluent
- French fair

COMPUTING SKILLS

- MS Windows95/98, MS Windows NT, MS Windows XP, MS Windows 7
- MS Office 97, MS Office 2000, MS Office XP, MS Office 2010
- Diverse graphic programs
- C++, Design of internet presences
- Network administration Windows 95/98/NT/2000

INTERESTS & SPORTS

- Competition shooting
- Cooking and wine tasting
- Biking
- Badminton

AUXILIARY ACTIVITIES

- 2009 – present: Active member of Junge Wirtschaft Harz e.V., Halberstadt
- 2006 – present: Active member of Roland initiative e.V., Halberstadt, Germany – entrepreneur platform for the industry in the Harz region
- 2006 – present: Committee member of shooting club Halberstadt, Germany
- 2005 – present: Member of Dechema, Germany
- 1990 – 1995: Student representative, chemistry department, University of Saarland, Germany
- 1992 – 1994: Student representative in scientific council of chemistry department, University of Saarland, Germany
- 1991 – 2005: Committee member of shooting club St. Annual, Germany

PATENTS

2010

- **PRODUCTION OF MOLDED PARTS FOR CASTING PURPOSES EP 2 244 870 A1**
GOEBBERT CHRISTIAN, DE ; HANISCH MICHAEL, DE ; HOFMANN VOLKER, DE ; MEYER FRANK, DE ; NONNINGER RALPH, DE ; REHSE HENNING, DE ;
ItN Nanovation GmbH (DE), 66117 Saarbrücken
JUNDT MAGNUS, DE ; PRIEBE CHRISTIAN, DE ; SCHAFFER GUNTHER, DE
Ashland Suedchemie Kernfest (DE)

2009

- **Verfahren und Vorrichtung zur Herstellung von Sandkernen DE 10 2007 063 552 A1**
Göbbert, Christian, DE ; Hanisch, Michael, DE ; Hofmann, Volker, DE
ItN Nanovation GmbH (DE), 66117 Saarbrücken
- **Beschichtungszusammensetzung zur Hydrophobierung von Paneelelementen DE 10 2008 011 798 A1**
Goebbert, Christian, DE ; Hanisch, Michael, DE ; Peters, Melanie, DE
ItN Nanovation GmbH (DE), 66117 Saarbrücken

2008

- **CONTINUOUSLY OPERATING AUTOCLAVE WO 2008/020078 A1**
GOEBBERT CHRISTIAN, DE ; WITTMER RAINER, DE ; PREUSS KLAUS, CH
ItN Nanovation GmbH (DE), 66117 Saarbrücken

2006

- **METHOD FOR PRODUCING A COMPOSITE MATERIAL THAT CAN BE USED AS A PHOTONIC CRYSTAL WO2004/095079**
NONNINGER RALPH (DE); Meyer Frank (DE); GOEBBERT CHRISTIAN (DE)
ItN Nanovation GmbH (DE), 66117 Saarbrücken

2005

- **Perfume Delivery Systems Based on Inorganic Nano Particles WO2005041908A1**
PAGET WALTER (CH); GRAETHER OTTO (CH)
Firmenich SA, Genf
NONNINGER RALPH (DE); WITTMER RAINER (DE); GOEBBERT CHRISTIAN (DE)
ItN Nanovation GmbH (DE), 66117 Saarbrücken

2004

- **Photonischer Kristall DE10318480A1**
NONNINGER RALPH (DE); Meyer Frank (DE); GOEBBERT CHRISTIAN (DE)
ItN Nanovation GmbH (DE), 66117 Saarbrücken

2003

- **Antimikrobielle Beschichtungen DE10225324A**
NONNINGER RALPH (DE); SCHICHTEL MARTIN (DE); GOEBBERT CHRISTIAN (DE)
ItN Nanovation GmbH (DE), 66117 Saarbrücken
- **Nanoskalige Kern-Hülle-Teilchen DE10164768A**
NONNINGER RALPH (DE); SCHICHTEL MARTIN (DE); GOEBBERT CHRISTIAN (DE)
ItN Nanovation GmbH (DE), 66117 Saarbrücken

2001

- **Nanoscale Corundum Powders, Sintered Compacts Produced from These Powders and Method for Producing the same EP01960526**
DRUMM, ROBERT (DE) ; GOEBBERT, CHRISTIAN (DE) ; GOSSMANN, KAI (DE) ;
NONNINGER, RALPH (DE) ; SCHMIDT, HELMUT (DE)
Institut für Neue Materialien gemeinnützige GmbH, 66123 Saarbrücken, DE

2000

- **Nanoskalige Korundpulver, daraus gefertigte Sinterkörper und Verfahren zu deren Herstellung DE10035679**
DRUMM, ROBERT (DE) ; **GOEBBERT, CHRISTIAN** (DE) ; GOSSMANN, KAI (DE) ;
NONNINGER, RALPH (DE) ; SCHMIDT, HELMUT (DE)
Institut für Neue Materialien gemeinnützige GmbH, 66123 Saarbrücken, DE

1999

- **Method for Preparing Suspensions and Powders Based on Indium Tin Oxide and the Use Thereof EP9906498**
NONNINGER, RALPH (DE) ; **GOEBBERT, CHRISTIAN** (DE) ; SCHMIDT, HELMUT (DE) ;
DRUMM, ROBERT (DE) ; SEPEUR, STEFAN (DE)
Institut für Neue Materialien gemeinnützige GmbH, 66123 Saarbrücken, DE

1998

- **Verfahren zur Herstellung von Suspensionen und Pulvern von Indium-Zinn-Oxid und deren Verwendung DE19849048**
NONNINGER, RALPH (DE) ; **GOEBBERT, CHRISTIAN** (DE) ; SCHMIDT, HELMUT (DE) ;
DRUMM, ROBERT (DE) ; SEPEUR, STEFAN (DE)
Institut für Neue Materialien gemeinnützige GmbH, 66123 Saarbrücken, DE
- **Verfahren zur Herstellung von Suspensionen, Pulvern und Formkörpern von Indium-Zinn-Oxid DE19840527**
GOEBBERT, CHRISTIAN (DE) ; NONNINGER, RALPH (DE) ; SCHMIDT, HELMUT (DE)
Institut für Neue Materialien gemeinnützige GmbH, 66123 Saarbrücken, DE

PUBLICATIONS

2011

- A. Kroll, C. Dierker, C. Rommel, D. Hahn, W. Wohlleben, C. Schulze-Isfort, **C. Göbbert**, M. Voetz, F. Hardinghaus, J. Schnekenburger: Cytotoxicity screening of 23 engineered nanomaterials using a test matrix of ten cell lines and three different assays - IN: Particle and Fibre Toxicology (2011, accepted, to be published)

2010

- J. Popovic, B. Grzeta, E. Tkalcec, A. Tonejc, M. Bijelic, **C. Goebbert**: Effect of tin level on particle size and strain in nanocrystalline tin-doped indium oxide (ITO) - IN: Materials Science and Engineering B (2010, accepted, to be published)

2009

- **C. Goebbert**, F. Hardinghaus, K.H. Kampmann, M. Kroell, C.-M. Lehr, U.F. Schäfer, C. Schultze-Isfort, C. Schultze, M. Voetz, W. Wohlleben: Particle Synthesis and Characterisation - IN: NanoCare - Health related Aspects of Nanomaterials - Final Scientific Report / Ed.: T.A.J. Kuhlbusch, H.F. Krug, K. Nau, DECHEMA e.V., D-60486 Frankfurt am Main, Germany, 2009, 9-21

2008

- Nanokommission - Zwischenbilanz im Dialog
http://www.bmu.de/files/pdfs/allgemein/application/pdf/nanokomm_ergebnisdokumentation.pdf

2004

- Nanoscaled powders for coatings / **Göbbert, C.**; Aegerter, M. - IN: Sol-Gel technologies for glass producers and users / Ed.: Aegerter, Michel A.; Mennig, Martin. - Boston u.a. : Kluwer Academic Publishers. 2004, 383-397

2002

- N. Al-Dahoudi, H. Bisht, **C. Goebbert**, T. Krajewski, M.A. Aegerter: Transparent Conducting, Anti-Static and Anti-Static-Anti-Glare Coatings on Plastic Substrates - IN: Thin Solid Films 392 (2002) p.299-304

- B. Grzeta, E. Tkalcec, **C. Goebbert**, M. Takeda, M. Takahashi, K. Nomura, M. Jaksic: Structural Studies of Nanocrystalline SnO₂ Doped with Antimony: XRD and Mössbauer Spectroscopy - IN: Journal of Physics and Chemistry of Solids 63 (2002) p.765-772
- **C. Goebbert**, M. Schichtel, R. Nonninger: Desinfektionslack - IN: Farbe & Lack 108. Jahrgang 7/2002, Vincentz Verlag

2000

- **Goebbert, C.**; Bisht, H.; Al-Dahoudi, N.; Aegerter, M.A.: Herstellung von großflächigen elektrisch leitfähigen und antistatisch-glanzmindernden (ASAG) ITO Schichten - IN: Glastechnische Tagung (74, 2000, Ulm): Kurzreferate.- DGG, 2000.- p.294-297
- **Goebbert, C.**; Gasparro, G.; Schuler, T.; Krajewski, T.; Aegerter, M.A.: Influence of the Layer Morphology on the Electrical Properties of Sol Gel Transparent Conducting Oxide Coatings - IN: Journal of Sol-Gel Science and Technology 19 (2000), p.435-439
- Al-Dahoudi, N.; Bisht, H.; **Göbbert, C.**; Krajewski, T.; Aegerter, M.A.: Transparent Conducting, Antistatic and Antistatic-Antiglare Coatings on Plastic Substrates - IN: Proceedings of the 3rd International Conference on Coatings on Glass (3rd-ICCG), Okt 29-Nov 2., 2000, Maastricht, NL / ed. by H.A. Meinema et al.- Veenendaal, NL: Universal Press, 2000, p.555-564
- **C. Goebbert**, H. Bisht, N. Al-Dahoudi, R. Nonninger, M.A. Aegerter, H. Schmidt: Wet Chemical Deposition of Crystalline, Redispersable ATO and ITO Nanoparticles - IN: Journal of Sol-Gel Science and Technology 19 (2000) p.201-204

1999

- **Christian Goebbert**, Michel A. Aegerter, Detlef Burgard, Ruedinger Nass, Helmut Schmidt: Ultrafiltration Conducting Membranes and Coatings from Redispersable, Nanoscaled, Crystalline SnO₂: Sb Particles - IN: Journal of Materials Chemistry 9 (1999), p.253-258
- **C. Goebbert**, R. Nonninger, M.A. Aegerter, H. Schmidt: Wet Chemical Deposition of ATO and ITO Coatings Using Crystalline Nanoparticles Redispersable in Solutions - IN: Thin Solid Films 351 (1999), p.79-84
- **C. Goebbert**, R. Nonninger, M.A. Aegerter, H. Schmidt: Wet Chemical Deposition of ATO and ITO Coatings Using Crystalline Nanoparticles Redispersable in Solutions - IN: Coatings on Glass 1998 - High-Performance Coatings for Transparent Systems in Large-Area and/or High-Volume Applications, 2nd International Conference on Coatings on Glass ICCG, Sept. 6-10, 1998 / org. Institut für Neue Materialien GmbH et al.- Amsterdam: Elsevier, 1999, p.135-140
- **C. Goebbert**, H. Bisht, R. Nonninger, M. A. Aegerter, H. Schmidt: Transparent Conducting Coatings Made from Redispersable Crystalline Nanoscaled Powders - IN: Multicomponent Oxide Films for Electronics, Proc. MRS 1999 Spring Meeting, San Francisco, April 05-09, 1999 / ed. Marilyn E. Hawley et al.- Warrendale, PA: MRS, 1999.- (MRS Symposia Proceedings; 574), p.199-204
- **C. Goebbert**, D. Burgard, R. Nass, M.A. Aegerter, H. Schmidt: Preparation of Conducting Ultrafiltration Membranes from Redispersable, Nanoscaled, Crystalline SnO₂:Sb Particles - IN: Ceramics: Getting into the 2000's, Proceedings of the World Ceramics Congress, part of the 9th CIMTEC-World Ceramics Congress and Forum on New Materials Florence, Italy June 14-19, 1998, Part D including Section I - Structural Ceramics, Section J - Ceramics for Process Engineering, Chemical and Environmental Applications, Section SM - Standards and Markets for ATCs / ed. P. Vincenzini.- Faenza: Techna, 1999.- (Advances in Science and Technology; 16), p.441-448

1998

- Detlef Burgard, **Christian Goebbert**, Ruediger Nass: Synthesis of Nanocrystalline, Redispersable Antimony-Doped SnO₂ Particles for the Preparation of Conductive, Transparent Coatings - IN: Journal of Sol-Gel Science and Technology 13 (1998), p.789-792
- **C. Goebbert**, M.A. Aegerter, D. Burgard, R. Nass, H. Schmidt: Conducting Membranes and Coatings Made from Redispersable Nanoscaled Crystalline SnO₂:Sb Particles - IN: Materials Research Society, MRS, Nanostructured Powders and Their Industrial Application, 520, 293-304 (1998)

1997

- G. Gasparro, D. Ganz, **C. Goebbert**, J. Puetz, M. A. Aegerter: SnO₂:Sb Transparent Conducting Coatings Made by Different Sol-Gel Processes - In: Proc: SPIE's International Symposium, Sol-Gel Optics IV 29/07 - 30/07/1997, San Diego (USA), Vol. 3136 (1997), p.407-418