

Curriculum vitae Ille C. Gebeshuber

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Education

2008	Habilitation (<i>Venia legendi</i>) in Experimental Physics, Vienna University of Technology, Austria
1998	PhD in the Technical Sciences (Dr. techn.) (with highest honors) Thesis on “Stochastic and Deterministic Influences on the Peripheral Coding of Auditory Signals” under DDDr. Frank Rattay, Vienna University of Technology, Austria
1995-1998	Doctorate Studies in the Technical Sciences
1995	Diploma in Physics Engineering (Dipl.-Ing.) (with highest honors)
1987-1995	Study of Physics Engineering, Vienna University of Technology, Austria
1987	Matura (School Leaving Examination), BG Kapfenberg, Austria

Professional Career

From 06/2014:	Member of the Board of Directors, International Society of Bionic Engineering
11/2011:	Inaugural Address “Biomimetics and Nanotechnology”, UKM, Bangi, Malaysia.
From 08/2011:	Scientific Advisory Board Member, Lifeboat Foundation, US
From 06/2011:	Director, Aramis Technologies Sdn. Bhd., Kuala Lumpur, MY
From 11/2010:	Strategy Board Member, COMET K2 XTribology Excellence Cen-

- tre of Tribology, Wiener Neustadt, Austria
- 09/2010: Founding Director, International Society for Bionic Engineering
- 2009-2015: **Full Professor of Physics**, Group Leader “Tribology, Nanotechnology and Biomimetics”, Universiti Kebangsaan Malaysia, Malaysia
- From 03/2009: **Associate Professor**, University of Technology Vienna, Austria
- 06/2008: Founder, TU BIONIK Center of Excellence for Biomimetics
- 10/2006-10/2010: Principal Scientist and Key Researcher, Austrian Center of Competence for Tribology, AC²T Research GesmbH, Wiener Neustadt, Austria
- 10/2002-01/2009: **Assistant Professor**, Institut für Allgemeine Physik (50% until 9/2006, 100% from 10/2006), Austria
- 01/2003-09/2006: Senior Researcher and Head of Strategic Research, Austrian Center of Competence for Tribology, AC²T Research GesmbH, Wiener Neustadt (50%), Austria
- 01/2000-12/2002: PostDoc, Vienna University of Technology (100% until 09/2002, 50% from 10/2002), Austria
- 12/1999-12/1999: Scientific Co-worker, Vienna University of Technology, Austria
- 06/1999-11/1999: PostDoc, University of California Santa Barbara, Santa Barbara, USA
- 07/1998-06/1999: PostDoc (Biomedical Technology Assessment), Vienna University of Technology, Austria
- 03/1998-06/1998: Research Assistant (Biomedical Technology Assessment), Vienna University of Technology, Austria
- 10/1995-09/2000: Tutor (Computer Simulation), Vienna University of Technology

Honors and Awards

- *Winner Look!Business Award (Category MINT Industries). Initiative by Uschi Fellner (Look! Wien live).*
- *Winner Austria'17 (Austrian of the Year 2017 Category Research). Initiative by ORF (Austrian Broadcasting Agency) and Die Presse.*
- *Shortlist Science Book of the Year 2017, with "Wo die Maschinen wachsen". Austrian Federal Ministry of Science, Research and Economy BMWF.*
- *Ranked amongst the top 10 of the most accessed and the most cited articles in the scientific journal "Micro and Nanosystems", 2014.*
- *Ranked Number 4 at the "4th Virtual Nanotechnology Poster Conference" Nanopaprika.eu - The International NanoScience Community, 2014*
- *2nd Prize at the "3rd Virtual Nanotechnology Poster Conference" Nanopaprika.eu - The International NanoScience Community, 2013*
- *2nd Prize at the "2nd Virtual Nanotechnology Poster Conference" Nanopaprika.eu - The International NanoScience Community, 2012*
- *Ranked Number 7 at the "2nd Virtual Nanotechnology Poster Conference" Nanopaprika.eu - The International NanoScience Community, 2012*

- *Tribology Top 10 Downloaded Articles 2007-2012*
Maney Publishing, UK
- *Special Award for Quality (Anugerah Khas Kualiti)*
Universiti Kebangsaan Malaysia, 2011
- *CD of the Month*
Club Ö1, ORF, 2010
- *Science Images 2008*
Austrian Science Fund FWF, Ranking “The best 12 science images”, 2009
- *The Top Ten Women in Science & Research*
Ranking “The 333 most important women in Austria”, Woman, 2008
- *Expert of the Month*
Funding Agency, FEMtech, 2008
- *Winner of the Photo Competition*
Vienna University of Technology, 2006
- *Winner of the Innovative Project Initiative*
Vienna University of Technology, 2005
- *Winner of the Research Project Initiative*
Funding Agency, Hochschuljubiläumsstiftung der Stadt Wien, 1999
- *Winner of the SUCCESS prize*
European Space Agency, 1999
- *Winner of the Wiener Wirtschaft Technology Prize*
Funding Agency, Fonds 150 Years Vienna University of Technology, 1999
- *Winner of the first prize at the students competition*
ETH Zurich, Switzerland, 1996

Research Projects

Research Project Acquisition

2013-2015: **Principle Investigator**

A structural approach to functional nanomaterials

MOHE FRGS Project

Project Volume: RM 149 100

2010-2013: **Principal Investigator**

Biomimetic development of a new generation of MEMS in medicine

UKM Arus Perdana Project

Project Volume: RM 300 000

2009-: **Principal Investigator**

BioScreen – Biomimetics Pilot Project

Society for the Advancement of Plant Sciences, Vienna, Austria

Project Volume: 7 000 €

- 2012: **Principle Investigator**
Bantuan Kewangan Bahan
UKM
- 2008: **Principal Investigator**
Atomic Force Microscopy of the Interaction of Functionalized Nanoparticles with Living CaCo-2 Cancer Cells
FFG Forschung macht Schule Innovationspraktikum
- 2008: **Initiator**
TU BIONIK Center of Excellence for Biomimetics
Innovation Programme of the Vienna University of Technology,
Project Volume: 13 000 €
- 2005-2006: **Principal Investigator**
Magnetic Carbon?
Innovative Project 2005, Vienna University of Technology,
Project Volume: 47 600 €
- 1999-2000: **Principal Investigator**
Development of a Scanning Ion Conductance Microscope (SICM) in Combination with a Patch Clamp Device
Hochschuljubiläumsstiftung Project H-120/99,
Project Volume: 90 000 ATS
- 1999-2000: **Principal Investigator**
Development of a Scanning Ion Conductance Microscope for Technical and Biological Applications
Wiener Wirtschaft Technology Prize Project,
Project Volume: 100 000 ATS

Research Project Management

- 2006-2009: **Deputy coordinator**
Ion Technology and Spectroscopy at Low Energy Ion Beam Facilities (ITS LEIF)
JRA4 “Production and Characterisation of Gas Phase Biomolecular Targets” of the 6th framework Research Infrastructure Action Integrated Infrastructure Initiative (I³) ITS LEIF,
Project Volume: ca. 100 000 € (of 3.5m Total Project Volume)
- 2006-2009: **Project Manager, Scientist in Charge, Gender Representative and Scientific Board Member**
Characterisation of Wear Mechanisms and Surface Functionalities with Regard to Life Time Prediction and Quality Criteria - from Micro to the Nano Range (WEMESURF)
6th framework EU Human Resources and Mobility Activity, Marie Curie Research Training Network (RTN),
Project Volume: 310 000 €
- 2005-2006: **Austrian Project Manager**

Grain Scale Investigation into Fretting Contacts

ÖAD Amadée Program Project (exchange with France) with
Thomas Dick and Prof. Georges Cailletaud from the
École National Supérieure des Mines de Paris

2003-2006: **Project Manager**

Functional Surfaces

KPlus Strategic Research Project, Project Volume: 544 000 €

Team Member in Research Projects

- 2014-2015: Eurasia Pacific Uninet Project EPU 2014
Healthcare and rehabilitation technology
Principal Investigator: Prof. (FH) Martin Kimmel
Project Volume: EUR 10 000
- 2014: Dana Pembangunan Penyelidikan, UKM
Development of hybrid nanostructures
UKM Project Code: DPP-2-14-049
- 2013-2015: *Bio-adhesive effect of banana leaves for elevated temperature application*
MOHE FRGS Project
Project Volume: RM 129 000
- 2013-2015: *ISFBER2G - Integrated Structural and Functional Biology, Engineering and Robotics Education Research in appreciation of social and cryptic insects 'technology*
UKM STEMiND Project
- 2013-2014: Eurasia Pacific Uninet Project EPU 23/2013
Healthcare and rehabilitation technology
Principal Investigator: Prof. (FH) Martin Kimmel
Project Volume: EUR 5 000
- 2011-2013: Vienna University of Fine Arts Project
Struktur.macht.Farbe
Principal Investigator: My PhD student Sigrid Zobl
- 2012: UKM Project OUP-2012-117
- 2011: Research University Grant UKM-OUP-NBT-27-118/2011
- 2010-2012: UKM Arus Perdana Project UKM-AP-TKP-10-2010
Design and fabrication of surface topology as a tool for stem cells differentiation through morphological regulation
Principal Investigator: Prof. Dr. Ruzymah Hj Idrus
Project Volume: RM 300 000
- 2010-2012: UKM-RRR1-07-FRGS0025-2010
Synthesis and characterization of indium doped ZnO nanowires for gas sensing applications
Principal Investigator: Dee Chang Fu

- 2010-2011: Project Volume: RM 39 200
Austrian Science Fund PEEK Project AR 14-G21
Biornametics: Architecture defined by natural patterns
Principal Investigator: Barbara Imhof
Project Volume: 120 000 €
- 2010: Research University Grant UKM-OUP-NBT-27-118/2010
Project Volume: RM 58 000
- 2009-2011: UKM-GPP-PPKK-18-2009
Project Volume: RM 146 300
- 2009-2011: UKM Arus Perdana Project UKM-AP-NBT-10-2009
Lab on Chip for Medical Applications (Micro Total Analysis System)
Project Volume: RM 902 200
- 2003-2006: FWF Project 16178 PHY
Nanometer-sized surface modifications on silicon produced by slow multiply charged ions
Principal Investigator F. Aumayr, TU Vienna
- 2000-2002: FWF Project 13543 PHY
UHV-AFM studies of nano-defect formation by slow multicharged ions at insulator surfaces
Principal Investigator F. Aumayr, TU Vienna
- 1999: National Science Foundation Project
Scanning Probe Microscopy and Instrumentation
Principal Investigator P. Hansma, UCSB, USA
- 1998: Austrian Ministry of Science project
TU-BioMed - Coordination Model for Biomedical Research and Teaching regarding the specific framework given by the European Union
Principal Investigator F. Rattay, TU Vienna
- 1996-1998: Austrian Ministry of Science Project
Medical Technology Assessment of (new) Biomedical Technologies
Principal Investigator C. Wild, Austrian Academy of Science

Rainforest Expeditions / Educational Biomimetic Jungle Walks

- *Ariau Amazon Towers Rainforest Lodge, Amazon, Brazil*
11/2001, privately organized
Project 'Getting to know the jungle'
- *Uvita, Costa Rica. Design Workshop.*
04/2008, organized by the Biomimicy Guild, Montana, USA
Project 'Applied Biomimetics: Low-Noise Aircraft Design'
- *Field trip to Dato Henry Barlow, Genting Tea Estate, Pahang, Malaysia.*

- 06/2009, organized by the Malaysian Nature Society
Project 'Structural colours in moths, plants and butterflies'
- *Scientific Expedition to Danum Valley Conservation Area (DVCA), the Borneo Rainforest Lodge and Sepilok Orang Utan Sanctuary, Sabah, Borneo, Malaysia.*
08/2009, organized by the Malaysian Nature Society (Alex Foong)
Project: 'Application of the Biomimicry Innovation Method in Borneo'
- *Ekspedisi Saintifik Lata Jarum 2009 (ESLJ 2009)*
11/2009, organized by Prof. Jumaat Adam (UKM), Pahang, Malaysia
Project 'Biomimetic studies of the reflective properties of the eyes of night-active spiders'.
- *Field trip to FRIM Forest Research Institute of Malaysia, Kepong, Malaysia*
01/2010, organized by the Malaysian Nature Society (Pasupathy Jayaraj)
Course 'Basics of Nature Guiding'
- *Mini Ekspedisi Saintifik Bukit Fraser (Fraser's Hill), Malaysia*
02/2010, organized by Profs. Jumaat Adam and Ille C. Gebeshuber (UKM)
Project 'Tarantulas, biomimetics and the tropical rainforest - an introduction'
- *Santubong Peninsula, Kuching, Sarawak, Borneo, Malaysia*
07/2010, privately organized
- *Endau Rompin National Park, Peninsular Malaysia*
08/2010, organized by Mr. Lam, Go Nature Shd. Bhd.
- *Semban (the village above the clouds), Sarawak, Borneo, Malaysia.*
09/2010, organized by John Chan – we visited the ladies of the rings!!
- *Tanjung Piai, Johor National Park, Johor, Malaysia*
11/2010, organized by Mr. Lam, Go Nature Shd. Bhd.
- *Kampung Sukau, Kinabatangan Wildlife Reserve, Sabah, Borneo, Malaysia*
11/2010, organized by North Borneo Safari – we saw a clouded leopard cat!!
- *Lata Jarum, Pahang, Malaysia*
11/2010, organized by Profs. Jumaat Adam and Ille C. Gebeshuber (UKM)
- *Tanjung Tuan, Melacca, Malaysia*
03/2011, organized by the Malaysian Nature Society
Volunteering at the Raptor Watch, nature education walks with kids
- *Khao Sok National Park, Thailand*
03/ 2011, organized by the Malaysian Nature Society (Pasu and Ashleigh)
- *Taman Alam Liar Negeri (Lata Kijang), Negeri Sembilan, Malaysia*
07/2011, organized by the 4WD Association Malaysia
- *Maliau Basin, Sabah, Borneo, Malaysia*
08-09/2011, organized by the Malaysian Nature Society (Alex Foong)
Project 'The lost world of Sabah' (book)
- *Baram River, Sarawak, Borneo, Malaysia*
09-10/2011, organized by the Malaysian Nature Society (Pasu and Ashleigh)
- *Cuban National Parks*
03/2012, privately organized (with the help of the Cuban embassy in KL)
Project 'National Parks in Cuba' (book)
- *Ulu Muda, Kedah, Malaysia*
06/2012
- *Kuala Selangor Nature Park & Sekinchan, Malaysia*

- 08/2012
- *Tasik Bera, Pahang, Malaysia*
08/2012
- *Forest Research Institute of Malaysia (FRIM)*
10/2012
- *Templer's Park Forest Reserve, Selangor, Malaysia*
11/2012
- *Taman Negara, Malaysia*
01/2013
- *Mabul Island, Semporna, Sabah, Malaysian Borneo*
02/2013
- *Whirinaki rainforest, New Zealand (with Peter Goldsbury)*
04/2013
- *Kinabalu Park, UNESCO World Heritage site, Sabah, Malaysian Borneo*
05/ 2013
- *North Borneo (Kawang, Kinarut, Papar, Putatan, Tanjung Aru), Sabah, Malaysian Borneo*
11/2013
- *Ulu Muda Field Research Centre, Kedah, Malaysia*
01/2014
- *Mount Bromo and Ijen Crater, Java, Indonesia*
04/2014
- *Fraser's Hill, Pahang, Malaysia*
05/2014, 09/2014, 10/2014

Teaching

Guest Professorships

- May 2006: Warsaw University of Technology, Warsaw, Poland
Biology for Nanotechnology Students
- July 2008: Universidad de la Habana, Havana, Cuba
Surface Nanoanalytics in Physics, Biology and Tribology
- March 2012: Universidad de la Habana, Havana, Cuba
Biomimetics in an Age of Convergence

Courses

- 2011-2015 Universiti Kebangsaan Malaysia, "Applied Nanoelectronics - Electronic Packaging II" (Z1RR 60320).
- 2013-2015 University of Applied Sciences FH Joanneum GmbH, Kapfenberg, Austria. "Molecular Electronics" for Master Studies "Advanced Electronic Engineering".
- 2010-2015 University of Applied Sciences FH Joanneum GmbH, Kapfen-

- berg, Austria. “Nanostructured Materials” for Master Studies “Advanced Electronic Engineering”.
- 2014 Universiti Kebangsaan Malaysia, “Lab Safety” (Research Methodology Course Z1RA6014).
- 2014 Universiti Kebangsaan Malaysia, “Tribology” (KKKM 4543).
- 2012 Vienna University, Department of Theoretical Biology, Vienna, Austria. Einführung in die Bionik (Introduction to Biomimetics) (with M. Drack).
Nanomalaysia Olympiad Camp 2012, IMEN, UKM.
Asian Institute of Medicine, Science and Technology (AIMST University), Faculty of Applied Sciences, Bedong, Kedah, Malaysia. Bionanoconvergence and Biomimetics (with Dr. Jern, Benchaporn Lertanantawong).
- 2008, 2012 Guest Professorship, July 2008, Universidad de la Habana, Cuba 2008: Surface Nanoanalytics in Physics, Biology and Tribology, 2012: Materials Science and Biomimetics.
- 2010 Vienna University of Applied Arts, Austria. Biomimetics, Universiti Kebangsaan Malaysia, “Publishing scientific papers”. European Forum Alpbach 2010, Seminar Biomimetics: Learning from nature for technical innovations.
- 2009 University of Applied Sciences Technikum Wien, Vienna, Austria. Lectures on Biomimetics, Nanotechnology and Nanomedicine.
- 2007, 2008 Interactions with Surfaces (134.114 PA¹).
- 2004, 2006, 2008 Laborübungen III (Experimental Lab for Physicists III, 134.126 PR).
- 2003, 2005, 2007 Laborübungen II (Experimental Lab for Physicists II, 134.124 PR).
- 2003, 2005, 2007 Laborübungen I (Experimental Lab for Physicists I, 134.107 PR).
- 2007 The Origin of Elements (134.160 VD).
Grundlagen der Physik III (Basics of Physics III, 134.125 UE).
Grundlagen der Physik II (Basics of Physics II, 134.110 UE).
Introduction to Nanotechnology (134.152 VD) self-drafted lecture.
- 2006 Grundlagen der Physik I (Basics of Physics I, 134.109 UE).
Introduction to Nanotechnology and Nanoanalytics (134.166 VO), self-drafted lecture.
Biology for Nanotechnology Students (Guest Professorship,

¹ All teaching if not stated otherwise was performed at University of Technology Vienna.

- May 2006, Warsaw University of Technology, Warsaw, Poland).
- 2005 Introduction to Nanotechnology (134.152 VD) self-drafted lecture.
- 2004 Nanotechnology (134.146 VD) self-drafted lecture.
- 1995-2000 Tutor in Computer-Simulation (101.010).

PostDocs

- Dr. Mitra Damghanian
(MEMS and NEMS development, Universiti Kebangsaan Malaysia, financed by IMEN, UKM.
Patent Application, 07/2010-03/2011
- Dr. Krystallia Psychogiopoulou
(chemistry, financed by European Union Marie Curie RTN WEMESURF)
AFM, XPS. 08/2008-01/2009
- Dr. Ayman El-Said
(physics, financed by European Union I³ ITS LEIF)
AFM, ion sources. 10/2008-01/2009

Research Assistants

- Ms. Tina Rezaie Matin
(physics, Universiti Kebangsaan Malaysia)
Biomimetics of nanostructures, 06/2009-04/2010
- Ms. MSc. Siti Zaleha bt Mat Diah
(biology, Universiti Kebangsaan Malaysia)
Biomimetic MEMS sensors, from 01/2011
- Mrs. MSc. Salmah Karman
(engineering, Universiti Kebangsaan Malaysia)
Biomimetic MEMS sensors, from 01/2011
- Mrs. MSc. Zahra Ehtiatkar
(microengineering and nanoelectronics, Universiti Kebangsaan Malaysia)
Optics, 05-08/2012
- Mr. Azam Razman
(physics, Universiti Kebangsaan Malaysia)
Structural colors, 2013
- Ms. Nurul Huda
(electrical systems engineering, Universiti Kebangsaan Malaysia)
Structural colors, 2013-2015

PhD Students

- Agnieszka Bogus
Physics Engineering, Vienna University of Technology, Austria, financed by Marie Curie RTN WEMESURF. *Isomer and oligomer specific monomolecular film lubrication investigated from the macro- to the nano range.* Main Supervisor 2007-2009 (PhD 2011).
- Sigrid Zobl,

- Fine Arts, Akademie der Bildenden Künste (Academy of Fine Arts Vienna), Vienna, Austria, from 10/2009. *Die Farben des Lichtes in der Malerei gestern - heute - morgen aus naturwissenschaftlicher Sicht*. Co-supervisor.
- Theresia Meschik
Veterinary Medicine, Vetmeduni Vienna, Austria, from 10/2010. *Entwicklung von biomimetischen Produkten inspiriert von nanoskaligen Materialien im Hausrind (Bos taurus) - Biomimetik des Hausrindes*. Main supervisor: Prof. Dr. Monika Egerbacher, Vetmeduni Vienna. Co-supervisor.
 - Salmah Karman
Engineering, Universiti Kebangsaan Malaysia, Malaysia, 2011-2015. *MEMS to assist, enhance and expand human sensory perceptions*. Main supervisor.
 - Siti Zaleha bt Mat Diah
Biology, Universiti Kebangsaan Malaysia, Malaysia, 2011-2015. *MEMS to assist, enhance and expand human sensory perceptions*. Main supervisor.
 - Johannes Srajer
Physics, Universitaet fuer Bodenkultur Wien, Vienna, Austria. *Plasmonic nanostructures for ultra-sensitive spectroscopy of biomolecules*. External Advisor (2012-2014) and Examiner (PhD 2014)
 - Bernd Kaufmann
Mechanical Engineering, Landskron, Austria. *Auxetic materials*. External Supervisor (from 2014)
 - Hasrawati abu Hassan
Tribology, Universiti Kebangsaan Malaysia, Malaysia. *Potential of banana leaf as an effective lubricant for high temperature application*. Co-Supervisor (from 2014)
 - Peter Piccottini
Biomimetics, Program Director “Biomimetics in Energy Systems”, Carinthia University of Applied Sciences. *Biomimetics in EnergyTSystems – A technophilosophical Approach*. Co-Supervisor (from 2014)

Master Students

- Severin Ehret (biomimetics)
Biomimetics of sponge spicules (with distinction, MSc. 2012)
- Tina Rezaie Matin (physics)
Biomimetics of nanostructures (MSc. 2011)
- Alexander Lurf (physics engineering)
AFM, XPS, SAM, tribology (in collaboration with the company CCI - Control Components Inc., Dipl.-Ing. 2009)
- Robert Ritter (physics engineering)
Ion induced surface modifications investigated with scanning probe microscopies (with distinction, Dipl.-Ing. 2008)
- Oliver Hekele (physics engineering)
Atomic force microscopy of Bacillus subtilis (with distinction, Dipl.-Ing. 2007)
- Clemens Grünberger (physics engineering)
Atomic force microscopy of the alga Euglena gracilis (with distinction, Dipl.-Ing. 2007)

- Manfred Schabernig (Lehramt student)
Rastersondenmethoden für die atomar aufgelöste Abbildung von Oberflächen (Scanning probe methods for atomically resolved surfaces) (MSc. 2004)
- Stefan Schraml (physics engineering)
Setup and application of a scanning ion conductance microscope (Dipl.-Ing. 2003)

Bachelor Students

- Oliver Futterknecht (Physics Engineering)
“Polarization-Assisted Navigation and Water Vapor Detection Realized with MEMS”, Vienna University of Technology, 2012
- Jennifer Bawitsch (Tissue Engineering)
Universiti Kebangsaan Malaysia, *“Biomimetics of Functional Nanostructures (Biomimetik von funktionalen Nanostrukturen)”*, Technikum Wien University of Applied Sciences, BSc. 2010
- Teresa Stemeseder (Tissue Engineering)
Universiti Kebangsaan Malaysia, *“Development of a novel analysis method for biological and technical nanostructures (Entwicklung einer neuen Analyse-methode fuer biologische und technische Nanostrukturen)”*, Technikum Wien University of Applied Sciences, BSc. 2010

Research Pupils, IAESTE and Summer Students (working on BSc, MSc or PhD)

- December 2014: UKM, Anha Jan, nanoscience and nanotechnology student, Amity University, Uttar Pradesh, India.
- May - June 2014: UKM, Hitesh Sharma, chemistry student, Indian Institute of Technology Varanasi (IIT-BHU), India.
- November 2013 - February 2014: UKM, Jonas Bansemer, student of Micro- and Nanostructures at Saarland University, Germany.
- July 2013 - February 2014: UKM, Chew Pui Cheng, student of architecture, Australia.
- Summer 2013: UKM, Christoph & Mathias Steiner, research pupils from Austria
- Summer 2012: UKM, Oliver Futterknecht, physics undergrad from TU Vienna
- Summer 2012: UKM, Alys Crawford, architecture undergrad from London City College, London, UK
- Summer 2012: UKM, Nicole Hirhager, architecture undergrad from TU Vienna
- Summer 2012: UKM, Mathias Steiner, pupil at HTL Klagenfurt, Austria
- Summer 2011: UKM, Nicole Hirhager, architecture undergrad from TU Vienna
- Summer 2011: UKM, Oliver Futterknecht, physics undergrad from TU Vienna
- Summer 2011: UKM, Dominik Pichler, physics undergrad from TU Vienna
- Summer 2011: UKM, Caroline Schweda, physics undergrad from TU Vienna
- Summer 2011: UKM, Christoph Steiner, pupil at Hauptschule Klagenfurt, Austria
- Summer 2011: UKM, MSc. Mag. (FH) Doris Lepschy, PhD student of Philosophy at University of Klagenfurt, Austria

- January 12 - April 8, 2010: UKM, Jennifer Bawitsch from Tissue Engineering, FH Technikum Wien, Austria (BSc project: Biomimetics of functional nanostructures)
- January 12 - April 8, 2010: UKM, Teresa Stemeseder from Tissue Engineering, FH Technikum Wien, Austria (BSc project: Development of a novel analysis method for biological and technical nanostructures)
- Summer 2008: TU Vienna, Gregor Gressenbauer, pupil at European School Frankfurt (project: AFM, XPS, nanotribology)
- Summer 2008: TU Vienna, MSc Aldara Naveira Suarez, PhD student at SKF Nieuwegein, The Netherlands, financed by WEMESURF Marie Curie RTN
- Summer 2008: TU Vienna, Tamina Laimer, pupil at Gymnasium Baden (project: AFM, cancer cells, nanoparticles)
- Summer 2007: TU Vienna, Martina Aumayr, MSc student at University of Applied Sciences Krems (project: AFM, biotechnology)
- Summer 2006: TU Vienna, Daniel Alexander Pohoryles, pupil at École Lycée (project: AFM, nanotribology)
- Summer 2006: TU Vienna, Cezary Pieczetowski, financed by AC2T
- Summer 2006: TU Vienna, Zahra Somani, United Kingdom (IAESTE)
- Summer 2005: TU Vienna, Farzy Tabari, Pakistan (IAESTE)
- Summer 2005: TU Vienna, Donat Holzer, financed by AC2T
- Summer 2003: TU Vienna, Marco de Grazia, Italy (IAESTE)

Undergraduate Students, doing the project work “Interactions with surfaces” (8 hours per week, for one semester)

- Teresa Makarczuk (physics engineering)
MEMS to assist, enhance and expand human sensory perceptions
- Mario Adam (physics engineering)
Development and construction of a photonic crystal lab experiment
- Franziska Stadlbauer (physics engineering)
Development and construction of a photonic crystal lab experiment
- Aaron Kaplan (computer science, Yale University)
Nanotransmitters
- Dr. med. Michael Bauer (medicine, Harvard University)
Nanotransmitters
- Mathias Seidler (physics engineering)
Laser assisted polymer processing
- Lukas Süß (physics engineering)
UHV STM of HOPG bombarded with highly charged ions
- Sebastian Kropatschek (physics engineering)
SICM scanning LabView development
- Stefan Fossati (physics engineering)
Targeted delivery, nanoparticles
- Monika Madl (materials science)
Targeted delivery, nanoparticles
- Robin Glattauer (physics engineering)

Targeted delivery, nanoparticles

- Johannes Srajer (physics engineering)
Diatom tribology, FE modelling
- Christopher Andrew Vasko (physics engineering)
AFM investigation of isomer specific lubrication of tribologically relevant surfaces
- Anna Celarek (physics engineering)
Nanoflakes
- Markus Brandstetter (physics engineering)
*AFM measurements on vegetative and sporulated *Bacillus subtilis* (2007)*
- Matthias Schreitl (physics engineering, biology)
*Investigating the click-stop mechanism in the diatom *Corethron criophilum*: optical and electron microscopy as well as micro-manipulation (2007)*
- Matthias Willensdorfer (physics engineering, biology)
*Investigating the click-stop mechanism in the diatom *Corethron criophilum*: optical and electron microscopy as well as micro-manipulation (2007)*
- Markus Jahn (physics engineering)
Instrumentation and development of a scanning ion conductance microscope (2007)
- Hansjörg Jerabek (physics engineering)
Instrumentation and development of a scanning ion conductance microscope (2007)
- Winkler Hannes (physics engineering)
Instrumentation and development of a scanning ion conductance microscope (2007)
- Thomas Aumeyr (physics engineering)
AFM investigation of isomer specific lubrication of tribologically relevant surfaces (2007)
- Matthias Ikeda (physics engineering)
AFM investigation of isomer specific lubrication of tribologically relevant surfaces (2007)
- Donat Holzer (physics engineering)
AFM investigation of isomer specific lubrication of tribologically relevant surfaces (2007)
- Christoph Gösselsberger (physics engineering)
**Bacillus subtilis* sporulation (2007)*
- Christoph Gösselsberger (physics engineering)
AFM force mapping on healthy and EPO red blood cells (2006)
- Cezary Pieczetowski (physics engineering)
Atomic Force Microscopy of nanostructured surfaces (2006)
- Robert Ritter (physics engineering)
*AFM of *Euglena gracilis* (2006)*
- Oliver Hekele (physics engineering)
AFM force mapping on healthy and EPO red blood cells (2006)

- Donat Holzer (physics engineering)
Development of an atomic force microscope closed fluid cell for tribological investigations of large samples in chemically aggressive environments (2005)
- Alexander Lurf (physics engineering)
MFM and nanomanipulation of magnetotactic bacteria (2005)
- Peter Oser (physics engineering)
MFM and nanomanipulation of magnetotactic bacteria (2005)
- Stefan Nagele (physics engineering)
AFM (2004)
- Danijel Dobožanov (physics engineering)
AFM (2004)
- Stefan Schraml (physics engineering)
SICM (2003)
- Perttu Niemela (biophysics)
Development of a scanning ion conductance microscope for technical and biological applications (2003)
- Gerald Richter (physics engineering)
Development of a scanning ion conductance microscope for technical and biological applications (2003)
- Manfred Schabernig (Lehramt Physik)
Omicron UHV AFM/STM Bedienungsanleitung (2000)

PhD and Master Theses, External Reviewer and/or Examiner:

- Salmah Karman, Biomedical Engineering, University of Malaya, Kuala Lumpur, Malaysia. Thesis Title: “Development of a High Performance MEMS Micropump for Insulin Treatment”. External Reviewer (MSc 05/2010)
- Saied Assadollahi, Life Sciences, Vienna University, Austria. PhD Thesis Title: “Novel Nanoparticle Transfer Assay for Point of Care Diagnostics”. External Reviewer (03/2010) and Examiner (PhD 04/2010)
- Pieter Baart, Tribology, Lulea University of Technology, Sweden. PhD Thesis Title: “Grease Lubrication of Radial Lip Seals”. Examiner (PhD 09/2011)
- Raziah binti Esa, Biosciences and Medical Engineering, Universiti Teknologi Malaysia, Johor, Malaysia. Thesis Title: “Investigation of 3D mechanical structure of campaniform sensillum as inspiration for biomedical sensing device”. External Reviewer and Examiner (MSc 05/2013)
- Sahba Sadir, Faculty of Bioscience and Medical Engineering (FBME), Universiti Teknologi Malaysia. Thesis Title: “Interfacial wicking flow through the hierarchical structure of natural cellulose fibers and cotton fabric”. External Reviewer (2014) and Examiner (PhD 01/2015)

Editorial Board Memberships

- *Advances in Nano Research (ANR), An International Journal*
Editorial Board Member (2013-2015)
- *American Journal of Research Communication*
Editorial Board Member (2013)
- *Aquatic Biology Research*
Editorial Board Member (from 2013)
- *Asian Transactions*
Editorial Board Member & Advisory Board Member (from 2012)
- *Biomimetics (MDPI, Basel)*
Editorial Board Member (from 2014)
- *Bulletin of Electrical Engineering and Informatics*
Editorial Board Member (from 2012)
- *Chaos, Solitons and Fractals*
Special Issue on Stochastic Resonance in Biological Systems
Elsevier, NL, Guest Editor (September 2000)
- *Current Engineering and Technological Research*
Editor (2012-2015)
- *Friction*
Editorial Board Member (from 2014)
- *International Journal of Development and Sustainability*
Editorial Board Member (from 2012)
- *International Journal of Engineering and Technical Research*
Editorial Board Member (from 2013)
- *International Journal on Engineering Applications*
Editorial Board Member (from 2012)
- *International Journal of Environment*
Editorial Board Member (from 2014)
- *International Journal of Mechanical and Materials Engineering*
Editorial Board Member (from 2009)
- *International Journal of Nano Devices, Sensors and Systems*
Editorial Board Member (from 2012)
- *International Journal of Scientific Research & Engineering Technology (IJSET)*
Editorial Board Member (from 2013)
- *International Journal of Sensors and Sensor Networks*
Editorial Board Member (from 2014)
- *Int. Journal of Surface Engineering and Interdisciplinary Materials Science*
Editorial Review Board Member (2013-2015)
- *ISRN Tribology*
Editorial Board Member (from 2012)

- *Journal of Applied and Industrial Sciences-JAIS*
Editorial Board Member (from 2013)
- *Journal of Inorganic Chemistry*
Editorial Board Member (from 2014)
- *Journal of Microengineering and Nanoelectronics*
Editorial Board Member (from 2009)
- *Journal of Modern Mechanical Engineering and Technology*
Editorial Board Member (from 2014)
- *Journal of Nanomedicine Research*
Editorial Board Member (from 2014)
- *Journal of South East Asian Studies*
Editorial Board Member (2013-2015)
- *Journal of Physical and Environmental Science Research*
Editorial Board Member (from 2012)
- *Jurnal Tribologi*
Editorial Board Member (2014-2016)
- *Material Science Research India*
Editorial Board Member & Advisory Board Member (from 2013)
- *Nanoelectromechanic Systems (NEMS)*
Editorial Board Member (from 2013)
- *Nanomechanics*
Editorial Board Member (from 2013)
- *Nanosciences and Nanotechnologies: An International Journal*
Associate Editor-in-Chief (from 2012)
- *Proceedings Engineering & Technology (PET)*
Editorial Board Member (from 2013)
- *Proceedings of the Institution of Mechanical Engineers Part C:
Journal of Mechanical Engineering Science*
Professional Engineering Publishing, London, UK
Editorial Board Member (from 2006)
Associate Editor (from 2009)
- *Proceedings of the Institution of Mechanical Engineers Part C:
Journal of Mechanical Engineering Science
Special Issue*
SAGE Publications, Guest Editor (2012)
- *Research Analysis and Evaluation*
Editorial Board Member (from 2012)

Edited Scientific Works

- Gebeshuber I.C. and van Aken G. (Eds., 2015)
Special Issue “Friction and Lubricants Related to Human Bodies”
Lubricants (ISSN 2075-4442, in preparation.

- Hassan M.B., Ghazali M.J.B., Kasolang S.B., Abdollah M.F.B., Gebeshuber I.C. and El Mansori M. (Eds., 2015)
Special Issue “Recent Advances and Challenges in Tribology Research for Sustainable Development”
Advances in Tribology, in preparation
- Hassan M.B., Kasolang S.B., Hyie K.M., Abdollah M.F.B., A. Ghani J.B., Gebeshuber I.C., Fukuda K., Berhan M.N., Ria Jaafar T.B., Maleque M.A., Saad N.H.B., Ghazali M.J.B., Hsie W.L.Y., Jumahat A.B., Abu Bakar M.A.B., Abdullah N.R.B., Wan Ibrahim M.K.B., Siambun N.J., Mohd Shah M.K.B., Samion S.B., Ismail M.H.B., Nik Roseley N.R.B., Makhtar A.K.B., Amiruddin H.B. and Saleman A.R.B. (Eds, 2013)
International Tribology Conference Malaysia 2013
Procedia Engineering 68, pp. 1-750. Elsevier, Amsterdam, ISSN: 1877-7058
- Goliaei B., Anderson P., Gebeshuber I.C., Khan S. and Bukhari M.H.S. (Eds., 2012)
First Pakistan International Biophysics Symposium
Abstract Book, NED University, Karachi, Pakistan, 70 pp.
- Gebeshuber I.C. and Vanura K. (Eds., 2012)
6. WINET Symposium “Bausteine des Lebens: Flüssig, Flüssigkeiten, im Fluß, ...”
Abstract Book, Medical University of Vienna, Vienna, Austria.
- Gebeshuber I.C. and Roy M. (Guest Eds., 2012)
Advanced Materials Engineering: Selected Papers from the Indo-Austrian Symposium 2010
Special Issue of IMechE Part C: J. Mech. Eng. Sci., 226(C2), 2012, SAGE Publishing, 103 pp.
- Gruber P., Bruckner D., Hellmich C., Schmiedmayer H.-B., Stachelberger H. and Gebeshuber I.C. (Eds., 2011)
Biomimetics - Materials, Structures and Processes. Examples, Ideas and Case Studies
Springer Heidelberg Dordrecht London New York, 266 p.
- Gebeshuber I.C., Holden A.V. and Petracchi D. (Guest Eds., 2000)
Stochastic resonance in biological systems
Special issue of Chaos, Solitons & Fractals, 11(12), 09/2000, Pergamon Press, Oxford, 129 pp.
- Gebeshuber I.C., Holden A.V. and Petracchi D. (Eds., 1998)
Stochastic resonance in biological systems
Abstract Book, First International Conference on Stochastic Resonance in Biological systems, Arcidosso, Italy, May 5-9, 1998.

Expert Panels and Consultancy Functions

- *Austrian Federal Ministry for Science and Research (Bundesministerium fuer Wissenschaft und Forschung):* Expert, Science Book of the Year Project, Austria (2014)
- *Nature Publishing Group:* Expert (2014)
- *European Commission and The European Platform for Biodiversity Research*

- Strategy (EPBRS):* Consultant on nature-based solutions (2014)
- *European Commission's Joint Research Centre:* Expert on web-based services which help build, maintain and showcase scholarly reputation (2014)
 - *Insighters Team:* Expert on Work-Life Balance (2014)
 - *LinkedIn Research:* Expert (2014)
 - *Elsevier:* Expert on print vs. electronic books (2014)
 - *Nature Publishing Group:* Expert (2014)
 - *International Society of Bionic Engineering (ISBE):* Member of the Board of Directors (from 2014)
 - *Springer Scientific Publishing:* Expert Springer for Authors (2014)
 - *QS World University Rankings, London, UK:* Academic Reviewer (2014)
 - *SPIE, the International Society for Optics and Photonics, US:* Expert on Continuing/Professional Education Courses (2014)
 - *Nature Publishing Group:* Expert on Open Access Publishing (2014)
 - *Oakland Innovation Ltd., Cambridge, UK:* Expert Tribology (2013, 2014)
 - *LinkedIn Research:* Expert Tribology (2013)
 - *Vienna Community Colleges (Wiener Volkshochschulen), Austria:* Expert on Teaching Methods (2013)
 - *Institut für Forschungsinformation und Qualitätssicherung, iFQ, Berlin, Germany:* Expert on science funding (2013)
 - *Zentrum für Soziale Innovation, Vienna, Austria:* Expert on bilateral collaboration in science and technology with third countries (2013)
 - *Bruker:* Expert AFM (2013)
 - *Thomson Reuters, Philadelphia, USA:* Expert Global Institutional Profiles Project (2013)
 - *Nature Publishing Group:* Expert on Advertising (2013)
 - *SPIE, the international society for optics and photonics, US:* Expert (2013)
 - *Thomson Reuters, Philadelphia, USA:* Academic Reviewer "Academic Reputation Survey" (2013)
 - *European Research Council, Brussels, Belgium:* Peer Reviewer ERC Advanced Grants, 6th Call 2013, Step 2, Area "Products and process engineering" (2013)
 - *Nature Publishing Group:* Expert on Open Access Publishing (2013)
 - *QS World University Rankings, London, UK:* Academic Reviewer (2013)
 - *EU FP 7 Project COM'N&N, NMP.2012.1.4-4 "Evaluation of EC communication and dialogue on research and innovation in nanotechnologies and design of future needs for the EU (industry and society)":* Expert on research communication, dialogue and engagement in nanoscience and nanotechnologies (2013)
 - *Digital Library Research Group, Dept. of Library & Information Science, University of Malaya, Kuala Lumpur, Malaysia:* Expert (2013)

- *Asylum Research, Santa Barbara, USA*: Expert on AFM Software (MFP-3d bio on inverted microscope) (2013)
- *Fachhochschule Nordwestschweiz, CH*: Expert, Strategic Games in Professional Development (2013)
- *Santa Fe Institute, New Mexico, US*: Beta Tester of the MOOC “Introduction to Complexity” (2013)
- *Federal Ministry for Transport, Innovation and Technology, Austria*: Expert concerning nanotechnology research collaboration with China (2013)
- *Science Exchange*: Expert concerning improved access to the scientific expertise available in research institutions (2013)
- *UKM, Malaysia*: Expert concerning consultancy (2012)
- *Nature Publishing Group*: Expert concerning author attitudes and behaviours regarding the publication of peer-reviewed articles (2012)
- *Junges Kolleg der Nordrhein-Westfälischen Akademie der Wissenschaften und der Künste, Germany, Europe*: Expert (2012)
- *Applied Surface Technologies, Greater New York Area, USA*: Expert (2012)
- *GfK NOP, London, UK*: Expert on attitudes towards research and scholarly publishing (2012)
- *Oxford Instruments Omicron NanoTechnology, UK*: Expert (2012)
- *Universiti Putra Malaysia (UPM), Malaysia*: Expert Work-Family Enrichment of Academics at Malaysian Research Universities and the Moderating Role of Gender (2012)
- *Carinthia University of Applied Sciences, Austria*: Academic Reviewer (2012)
- *Cientifica, Ilkley, UK*: Expert on Nanoelectronics (2012)
- *Marketsandmarkets, Dallas, TX, USA*: Expert on nanoelectromechanical systems (NEMS) and nanorobots (2012)
- *Cambridge Nanomaterials Technology Ltd, UK*: Expert (2012)
- *Joanneum Research, Austria*: Expert on Technology Funding (2012)
- *NSERC Natural Sciences and Engineering Research Council of Canada, NSERC Strategic Project Grants Program, Canada*: Peer Reviewer (from 2012)
- *The Star, Malaysian Newspaper*: Expert (2012)
- *Nature Publishing Group*: Expert (2012)
- *Vienna University of Technology, Austria*: Expert (2012)
- *Cambridge University Press, UK*: Expert (2012)
- *SPIE (The International Society for Optics and Photonics), US*: Expert (2012)
- *QS World University Rankings, London, UK*: Academic Reviewer (2012)
- *SAGE Publications, London, UK*: Expert (2012)
- *Beinecke Rare Books Library, Yale University, US*: Expert (2012)
- *ORF Austrian Television Broadcasting Company, Popular Science TV Format*

- “Newton”: Scientific Advisor (2012)
- *Austrian Federal Ministry for Science and Research (Bundesministerium fuer Wissenschaft und Forschung), Science Book of the Year Project, Austria: Expert (2012)*
 - *Thomson Reuters: Expert (2011)*
 - *ICM Research - Clear thinking in a complex world, UK: Expert (2011)*
 - *The Guardian, UK: Expert (2011)*
 - *University of Natural Resources and Life Sciences, Vienna, Austria: Expert (2011)*
 - *Serbia Innovation Project (funded by Innovation Fund, Republic of Serbia and the Worldbank): Peer Reviewer (2011-2014)*
 - *Oxford Scientific Films (Mrs. Hannah Sneyd), Bristol, UK: Expert (2011)*
 - *PlanSinn, Vienna, Austria: Expert (from 2011)*
 - *Department of Biosafety, Ministry of Natural Resources and Environment, Malaysia: Expert (2011)*
 - *Springer Scientific Publishing, Germany: Expert (2011)*
 - *elektroniknet.de, Germany: Expert (2011)*
 - *Energy for the Future, Shell: Expert (2011)*
 - *Nature Publishing Group: Expert (from 2011)*
 - *Corporate Accountability International: Expert (2011)*
 - *King Abdulaziz University, Jeddah, Saudi Arabia: External Assessor regarding a professional promotion to the status of Full Professor (2011)*
 - *2011 Index of Economic Freedom, The Heritage Foundation, Washington D.C., USA: Expert (2011)*
 - *ERC European Research Council, ERC Advanced Grants, Area “Products and Process Engineering”, Brussels, Belgium: Peer Reviewer (from 2011)*
 - *Joanneum Research, Bundesministeriums für Verkehr, Innovation und Technologie, Austria: Expert (2011)*
 - *SKF, Nieuwegein, The Netherlands: Expert (2011)*
 - *Centre for Social Innovation, Vienna, Austria: Expert (2011)*
 - *Universiti Sains Malaysia, Pulau Pinang, Malaysia: External Assessor regarding a professional promotion to the status of Full Professor (2011)*
 - *The University of Western Australia, Perth, Australia: Scientific Advisor (04/2011)*
 - *McKinsey & Company, Vienna, Austria: Scientific Advisor (2011)*
 - *Pusat Sains Negara, Malaysian National Science Center, Kuala Lumpur, Malaysia: Scientific Advisor (from 2011)*
 - *ARGOS Consortium - Transatlantic Observatory for Meeting Global Health Policy Challenges through ICT-enabled Solutions, 'Virtual Physiological Human' Center*

- of Excellence: Scientific Advisor (from 2011)
- *QS World University Rankings, London, UK*: Academic Reviewer (2011)
- *ZimTec, NaKu, Austria*: Consultant concerning Algae Adhesion (2011)
- *COMET K2 XTribology Excellence Centre of Tribology, Austria*: Strategy Board Member (from 2010)
- *SEA-EU-NET*: Consultant on S&T cooperation SE-Asia&Europe (from 2010)
- *The Science Advisory Board, Arlington, VA, USA*: Scientific Advisor (Research) (from 2010)
- *“Bionic Nation”, Biomimetics Pilot Project, Miri, Sarawak, Malaysia*: Scientific Advisor (from 2010)
- *QS World University Rankings, London, UK*: Academic Reviewer (2010)
- *ISESCO (Islamic Educational, Scientific and Cultural Organization)*: Expert in Panel on Nanotechnology (from 2010)
- *“Valle de Farfalle” Project in Oman*: Expert (from 2010)
- *AZoNano.com - The A to Z of Nanotechnology*: Expert (from 2009)
- *Zoom Kindermuseum (Museum for Children), Vienna, Austria*: Conceptual Consultant (2008/2009)
- *Research Gate*: Senior Scientific Advisor (from 2008)

Other Scientific Community Services

- *Member of the Board of Directors*
International Society of Bionic Engineering (ISBE) (from 2014)
- *Committee Member in the Internationalisation Bureau*
Malaysian Tribological Society MYTRIBOS (2014-2016)
- *Committee Member*
Malaysian Tribological Society MYTRIBOS (2011-2013)
- *Strategy Task Force Member*
Austrian Center of Competence for Tribology (2005-2006)
- *Strategic Education Development*
Chamber of Austrian Industrialists (2006-2008)
- *Public Relations Representative*
Faculty of Physics, Vienna University of Technology (2006-2009)
- *Key Researcher and Principal Scientist*
Austrian Center of Competence for Tribology (from 2007)
- *Team Member “Inter and Cross Disciplinarity Strategy Team”*
Proc. IMechE Part C: J. Mech. Eng. Sci., London, UK (from 2009)
- *Team Leader “Bioengineering Strategy Team”*
Proc. IMechE Part C: J. Mech. Eng. Sci., Professional Engineering Publishing, London, UK (from 2009)

International Activities (Europe - ASEAN)

- Initiation of discussions concerning Memorandum of Understanding (MoU), UKM & FH Villach, 2009
- Initiation of discussions concerning Memorandum of Understanding (MoU), UKM & FH Technikum Wien, 2009
- Visit of the Scientific & Cultural Delegation from Austria to Malaysia, November 2010: Organization and Implementation of Kuala Lumpur City Tour and 3D Rainforest Discovery Walk, with kind support from UKM. Photos
- Visit of the Scientific Delegation from Vienna University of Technology, Austria to UKM, Malaysia, April 2011: Organization of initial official talks regarding membership of UKM in the ASEA-UNINET. Success: UKM joined ASEA-UNINET in 2011!
- Initiation of discussions concerning Memorandum of Understanding (MoU), UKM & TU Wien, June 2011

Memberships in Scientific and Expatriate Societies

- from 1995: Biophysical Society
- from 2006: Austrian Physical Society
- from 2008: Malaysian Nature Society (MNS)
- from 2008: TU BIONIK, Center of Excellence Bionik / Biomimetics at the Vienna University of Technology, **Initiator and Founding Member**
- from 2009: German Speaking Society of Kuala Lumpur (GSSKL) **Committee Member** (from 2014)
- from 2009: Malaysian Tribological Society (MYTRIBOS) **Life Member, Committee Member** (2011-2013, 2014-2016)
- from 2010: German World Club
- from 2010: International Society of Bionic Engineering (ISBE) **Founding Member**
- from 2010: Malaysian Karst Society
- from 2011: American Nano Society
- from 2011: Materials Research Society of Singapore (MRS-S)
- from 2011: Austrians.org
- from 2012: Bionikum Austria **Founding Member**
- from 2012: International Society for Development and Sustainability (ISDS)
- from 2012: IJENS Research Promotion Group **Founding Member**
- from 2013: Nanopaprika **Certified Member**
- from 2013: Rakan Alam Sekitar (RAS)
- from 2013: InterNations
- from 2013: Innovation Global Network **Invited Member**

Reviewer (Grant Applications)

- ERC European Research Council, ERC Advanced Grants, Area “Products and Process Engineering”, Brussels, Belgium, 2011
- Serbia Innovation Project (funded by Innovation Fund, Republic of Serbia and the Worldbank), Belgrade, Serbia, 2011-2014
- NSERC Natural Sciences and Engineering Research Council of Canada, NSERC Strategic Project Grants Program, Canada, from 2012
- European Union, FP 7, from 2012
- Qatar National Research Fund, National Priorities Research Program, Qatar, from 2012

Reviewer (Books)

- “Geschlechtersensible Hospiz- und Palliativkultur in der Altenhilfe”, Eds. E. Reitinger & S. Beyer, Frankfurt, Mabuse Verlag, 2010
- “Embryogenesis Explained”, Gordon N.K. and Gordon R., Singapore, World Scientific Publishing Company, 2013
- Confidential Book Proposal, RSC Publishing Royal Society of Chemistry, 2014

Reviewer (Peer-reviewed Journal Articles)

- Advances in Colloid and Interface Science (from 2007)
- Advances in Optical Technologies (from 2012)
- African Journal of Agricultural Research (from 2011)
- African Journal of Biotechnology (from 2011)
- African Journal of Pharmacy and Pharmacology (from 2012)
- Aquatic Biology Research (from 2014)
- Beilstein Journal of Nanotechnology (from 2014)
- Bioinspiration & Biomimetics (from 2012)
- Biophysical Journal (from 1996)
- BioNanoScience (from 2011)
- Central European Journal of Biology (from 2007)
- Current Catalysis (from 2011)
- Current Engineering and Technological Research (from 2012)
- European Physical Journal - Applied Physics (from 2010)
- Europhysics Letters (from 2006)
- Foundations of Science (from 2009)
- IEEE Photonics Technology Letters (from 2014)
- IEEE Sensors Journal (from 2013)
- IEEE Transactions on Nanotechnology (from 2006)

- International Journal of Computer Engineering Research (from 2011)
- International Journal of Design Engineering (from 2010)
- International Journal of Microengineering and Nanoelectronics (from 2009)
- International Journal of Mechanical and Materials Engineering (from 2010)
- International Journal of Nano Devices, Sensors and Systems (from 2012)
- International Journal of Sensors and Sensor Networks (from 2014)
- International Journal of Surface Science and Engineering (from 2010)
- ISRN Tribology (from 2012)
- Journal of Applied and Industrial Sciences (from 2013)
- Journal of Applied Chemical Science International (from 2014)
- Journal of Applied Phycology (from 2013)
- Journal of Modern Mechanical Engineering and Technology (from 2015)
- Journal of Microscopy (from 2008)
- Journal of Nano Research (from 2007)
- Journal of Nanomaterials (from 2014)
- Journal of Nanomedicine Research (from 2014)
- Journal of Phycology (from 2003)
- Journal of Pure and Applied Chemistry (from 2014)
- Jurnal Nanosains & Nanoteknologi (from 2010)
- Materials and Manufacturing Processes (from 2007)
- Micromachines (from 2013)
- Micron (from 2005)
- NED University Journal of Research - Applied Sciences (from 2014)
- Physical Review & Research International (from 2013)
- Proceedings of the Institution of Mechanical Engineers Part C: Journal of Mechanical Engineering Science (from 2005)
- Proceedings of the Institution of Mechanical Engineers Part J: Journal of Engineering Tribology (from 2006)
- Proceedings of the Institution of Mechanical Engineers Part H: Journal of Engineering in Medicine (from 2009)
- Protoplasma (from 2013)
- Recent Patents in Electrical Engineering (from 2012)
- Review of Scientific Instruments (from 2010)
- RSC Advances (from 2014)
- Scientific Research and Essays (from 2011)
- Scanning (from 2011)
- Sensors (from 2009)
- Sensors & Actuators: A. Physical (from 2012)
- TELKOMNIKA Indonesian Journal of Electrical Engineering (from 2012)

- Theoretical Biology Forum (from 2014)
- Tribology Letters (from 2009)
- Tribology - Materials, Surfaces & Interfaces (from 2009)
- Ultramicroscopy (from 2012)

Reviewer (Book Chapters)

- “Scaling in Solid Mechanics”, Ed. F.M. Borodich, Berlin, Springer, 2008
- “The Diatoms: Applications for the Environmental and Earth Sciences” (2nd Ed., Eds. Smol J.P. and Stoermer E.F.), Cambridge University Press, 2009
- “Scanning Probe Microscopy in Nanoscience and Nanotechnology”, Ed. B. Bhushan, Springer-Verlag, Heidelberg, 2010
- “The Diatom World”, Eds: Kociolek P. and Seckbach J., Springer, 2010
- “Biomimetics - Materials, Structures and Processes. Examples, Ideas and Case Studies”, Eds: Bruckner D., Gruber P., Hellmich C., Schmiedmayer H.-B., Stachelberger H., Gebeshuber I.C., Springer Publishing, 2011
- “The Science of Algal Fuels: Phycology, Geology, Biophotonics, Genomics and Nanotechnology”, Eds. R. Gordon & J. Seckbach, Springer, Dordrecht, 2012.
- “Mechanochemistry - Mechanical breaking of chemical bonds” by G. Kaupp, open review for UNESCO EOLSS, 2012.
- “Bio-communication”, Eds. J. Seckbach and R. Gordon, The University of Chicago Press, Chicago, USA, 2014.

Reviewer (Peer-reviewed Conference Proceeding Articles and Abstracts)

- First International Conference on Stochastic Resonance in Biological Systems, Arcidosso (Tuscany), May 5-9, 1998, Italy
- International Conference on Engineering and Meta-Engineering: ICEME 2010 (Jointly with The 16th International Conference on Information Systems Analysis and Synthesis: ISAS 2010 and The 8th International Conference on Computing, Communications and Control Technologies: CCCT 2010), 6-9 April 2010, Orlando, Florida, USA
- The 3rd International Multi-Conference on Engineering and Technological Innovation: IMETI 2010, June 29th - July 2nd, 2010, Orlando, Florida, USA
- 4th IEEE International Conference on Computer Science and Information Technology 2011 (IEEE ICCSIT 2011), 10-12 June 2011, Chengdu, China
- 1st International Conference on Electrical, Control and Computer Engineering 2011 (InECCE 2011), 21-22 June 2011, Kuantan, Pahang, Malaysia
- The 4th International Multi-Conference on Engineering and Technological Innovation: IMETI 2011, 19-22 July 2011, Orlando, Florida, USA
- Nanotechnology Applications in Energy and Environment (NAEE2012), September 20-21, 2012, Institut Teknologi Bandung, Indonesia
- 2nd International Conference on Photonics 2011 ICP2011, October 17-19, 2011,

Kota Kinabalu, Malaysia

- 3rd International Conference on Photonics 2012 ICP2012, October 1-3, 2012, Penang, Malaysia
- 10th IEEE International Conference on Semiconductor Electronics 2012 (ICSE2012), September 19-21, 2012, Kuala Lumpur, Malaysia
- 1st International Conference “Sustainability through Biomimicry: Discovering a World of Solutions Inspired by nature” STB12, 26-28 November 2012, Dammam, Kingdom of Saudi Arabia
- 3rd International Conference on Photonics 2012 ICP2012, October 1-3, 2012, Penang, Malaysia
- 3rd ISESCO International Workshop and Conference on Nanotechnology 2012 IWCN2012, December 5-7, 2012, UKM, Bangi, Malaysia
- 5th IEEE International Conference on Computer Science and Information Technology 2013 (IEEE ICCSIT 2013), March 27-28, 2013, Amman, Jordan
- 4th International Conference of Bionic Engineering ICBE2013, University of Aeronautics and Astronautics, August 13-16, 2013, Nanjing, P.R. China
- 5th World Tribology Congress WTC2013, September 8-13, 2013, Torino, Italy
- 4th International Conference on Photonics 2013 ICP2013, October 28-30, 2013, Melaka, Malaysia
- Malaysian International Tribology Conference 2013 (MITC2013), November 18-20, 2013, Kota Kinabalu, Sabah, Malaysian Borneo (for papers in the following fields: Biomaterials & Biomedical Applications, Ecotribology and Biotribology, Material Characterisation, Nanotribology & MEMS Tribology, Test Methods in Tribology, Surface Topography and Contact Mechanics)
- 5th International Conference on Photonics 2014 ICP2014, September 2-4, 2014, Kuala Lumpur, Malaysia
- Design for Sustainable Well-being and Empowerment 2014, June 12-14, 2014, Indian Institute of Science, Bangalore, India
- International Conference on Business, Management, Tourism and Hospitality (BIZMATOUR 2015), May 12-14, 2015, Melaka, Malaysia.
- 2015 IC4T 2nd International Conference on Computer, Communication, and Control Technology, April 21-23, 2015, Kuching, Malaysia
- 2nd Malaysian International Tribology Conference 2015 MITC2015, November 16-17, 2015, Penang, Malaysia.

Conference Committee Positions

- *9th International WiNET Symposium “Building blocks of life IX”*
September 3-6, 2015, Berlin.
Invited Lecture, Member of the Scientific Committee.
- 4th International Conferences on Advances in Mechanical Engineering 2015 (ICAME2015)
August 26-27, 2015, Bali, Indonesia.
Member of the International Advisory Committee.

- *International Conference on Control, Engineering and Information Technology CEIT'15*
May 25-27, 2015, Tlemcen, Algeria
International Program Committee Member.
- *2nd International Conference on Green Energy and Environmental Engineering (GEEE-2015)*
April 18-19, 2015: Monastir, Tunisia.
Advisory Committee Chair.
- *5th International Conference on Photonics 2014 ICP2014*
September 2-4, 2014, Kuala Lumpur, Malaysia
Member of the Technical Program Committee.
- *Conference “Design for sustainable well-being & empowerment”*
June 12-14, 2014, Indian Institute of Science IIS, Bangalore, India
Member of the International Advisory Committee and the Scientific Review Committee, Keynote Presentation, Panelist.
- *2nd International Conference on Applied Mechanics, Mechatronics and Intelligent System (AMMIS2014)*
April 18-20, 2014, Changsha, China
Technical Program Committee Member.
- *IEEE Region 10 Technical Symposium 2014 (TENSYP2014)*
April 14-16, 2014, Kuala Lumpur, Malaysia
Technical Program Committee Member.
- *International Conference on Control, Engineering and Information Technology CEIT'14*
March 22-25, 2014, Sousse, Tunisia
Honorary General Chair.
- *8th International WiNET Symposium “Building blocks of life VIII”*
February 20-23, 2014, University of Veterinary Medicine Vienna
Member of the Scientific Committee.
- *Global Nanotechnology Summit “Exploring Applications for Human Development”*
February 4-5, 2014, Fleming Gulf
Member of the Advisory Panel
- *Malaysia International Tribology Conference 2013 (MITC 2013)*
November 2013, Kota Kinabalu, Sabah, Borneo, Malaysia
Committee Member
- *5th World Tribology Congress (WTC 2013)*
September 8-13, 2013, Torino, Italy
Member of the Scientific Committee. Track Organizer “Ecotribology”
- *5th Vienna International Conference Nanotechnology - Viennano13*
September 8-13, 2013, Torino, Italy
Member of the Scientific Committee.
- *International Conference on Control, Engineering and Information Technology CEIT'13*

- June 4-7, 2013, Sousse, Tunisia
Program Committee Member.
- *7th International WiNET Symposium “Building blocks of life VII”*
February 21-24, 2013, University of Hannover, Germany
Member of the Scientific Committee.
 - *3rd International Conference on Photonics 2012 ICP2012*
October 1-3, 2012, Penang, Malaysia
Member of the Technical Program Committee.
 - *1st ICON “Sustainability through Biomimicry: Discovering a World of Solutions Inspired by nature”*
November 27-28, 2012, Dammam, Kingdom of Saudi Arabia
Member of the International Scientific Referee Committee.
 - *Nano Malaysia 2012 - Conference and Expo*
November 1-2, 2012, Kuala Lumpur, Malaysia
Committee Member.
 - *6th Joint Workshop and Seminar on Microengineering and Nanoelectronics 2012*
September xx-yy, 2012, Kuala Lumpur, Malaysia
Member of the Scientific Committee.
 - *10th IEEE International Conference on Semiconductor Electronics 2012 (ICSE2012)*
September 19-21, 2012, Kuala Lumpur, Malaysia
Member of the Technical Program Committee.
 - *8th International Materials Technology Conference and Exhibition “Green Technologies for Sustainability & Innovations in Materials”*
July 9-12, 2012, Selangor, Malaysia
Member of the Advisory Committee.
 - *The First Pakistan International Biophysics Symposium including 1st National Biophysics Student Meeting and Research Competition*
June 2-3, 2012, Department of Biomedical Engineering, NED University of Engineering & Technology, Karachi, Pakistan
Member of the Scientific Committee.
 - *6th International WiNET Symposium “Building blocks of life VI”*
March 28-April 1, 2012, Medical University Vienna, Austria
Member of the Scientific Committee.
 - *School “Biomimetics in an Age of Convergence”*
March 12-14, 2012, Havana University, Cuba
Organizer and Lecturer.
 - *International Conference “New Materials in the Age of Convergence”*
March 12-15, 2012, Havana University, Cuba.
International Organizing Committee Member.
 - *COMSATS (Commission on Science & Technology for Sustainable Development in the South) - UNESCO (United Nations Educational, Scientific and Cultural Organization) - NAM S&T Centre (Centre for Science and Technology of the*

- Non-Aligned and Other Developing Countries) - IMEN UKM Joint Training & Workshop on Nanotechnology “Nanotechnology in the edge of convergence”*
November 24-27, 2011, UKM Bangi, Malaysia.
Member of Programm Committee.
- *Regional Tribology Conference 2011 (RTC2011)*
November 22-24, 2011, Langkawi Island, Malaysia
Member of Programm Committee.
 - *DGM Conference “Friction, Wear and Wear Protection”*
October 26-28, 2011, Karlsruhe, Germany
Member of the Programm Committee.
 - *4th Vienna International Conference Nanotechnology – Viennano11*
June 7-9, 2011, Vienna & Wiener Neustadt, Austria
Member of the Scientific Committee
 - *5th International WiNET Symposium “Building blocks of life V”*
June 2-5, 2011, Dortmund, Germany
Member of the Scientific Committee.
 - *Euro-Mediterranean Conference on Bioengineering and Biomaterials “Aging in human tissue: frontiers for transdisciplinary research”*
May 12-16, 2011, Alexandria, Egypt
Member of the Scientific Committee.
 - *3rd Nanoscience & Nanotechnology Symposium*
June 16, 2010, Bandung, Indonesia.
Member of the International Scientific Advisory Board.
 - *4th International WiNET Symposium “Building blocks of life IV”*
March 17-21, 2010, Semriach, Austria.
Member of the Scientific Committee.
 - *Stategy Board “UKM Scientific Outreach”*
Universiti Kebangsaan Malaysia (from 2009)
 - *Board “Center for the Gifted and Talented Youth”*
Universiti Kebangsaan Malaysia (from 2009)
 - *Material Science in the age of nano*
November 21-28, 2009, Havana, Cuba.
Member of the Scientific Committee.
 - *Nanotech Malaysia, 3rd International Symposium*
November 3-5, 2009, Kuala Lumpur, Malaysia
Member of the Scientific Committee
 - *3rd International WiNET Symposium “Building blocks of life III”*
July 29 - August 2, 2009, Berlin, Germany
Member of the External Scientific Advisory Board
 - *International Conference on Bioengineering & Biomaterials IC2B’2009*
18. – 20. 03. 2009, Meknes, Morocco
Member of the Scientific Committee
 - *3rd Vienna International Conference Nanotechnology - Viennano09*

- 18. - 20. 03. 2009, Vienna & Wiener Neustadt, Austria
Member of the Scientific Committee
- *WEMESURF Summer School*
August 25-September 5, 2008, Semmering, Austria
Member of the Scientific Committee
- *1st International WiNET Symposium “Building blocks of life I”*
July 14-21, 2007, Hamburg, Germany
Member of the Scientific Committee
- *2nd Vienna International Conference Micro- and Nanotechnology - Viennano07*
March 14-16, 2007, Vienna & Wiener Neustadt
Member of the Scientific Committee.
- *WEMESURF Network meeting 02*
March 13-14, 2007, Vienna, Austria
Member of the Scientific Committee
- *WEMESURF Marie Curie Research Training Network*
November 1, 2006 – January 31, 2009
Scientist in Charge, Scientific Board Member, Gender Officer
- *ECASIA '05*
11th European Conference on Applications of Surface and Interface Analysis
September 25-30, 2005, Vienna, Austria
Member of the Scientific Committee
- *Proteomics: A functional approach (NoE coordination meeting)*
February 13-14, 2003, Vienna, Austria
Organizer, Member of the Scientific Committee
- *1st International Conference on Stochastic Resonance in Biological Systems*
May 5-9, 1998, Arcidosso, Italy
Member of the Scientific Committee
- *Brain Modelling - TU-BioMed Minisymposium*
February 27, 1998, Vienna, Austria
Member of the Organizing Committee, Member of the Scientific Committee
- *Neurophysik - TU-BioMed Minisymposium*
April 17, 1996, Vienna, Austria
Member of the Organizing Committee, Member of the Scientific Committee

Oral Presentations

- **9th International WiNET Symposium “Building blocks of life IX”**
Berlin, Germany (2015)
Invited Lecture: “Physical and mental concepts of time”
- **Intl. Workshop “Learning from Nature for successfully addressing global challenges for humankind”, EU-ASEAN STI Days**
Bangkok, Thailand (2014)
Keynote Presentation: “Inspired by Nature: New ways of doing engineering”

and managing resources for successfully addressing global challenges for humankind”

I was the organizer of this workshop and invited speakers from all over the globe to present their views on the theme. In my keynote, functional structures, programmable materials and devices without metals and plastics served as ignition points to come up with new, disruptive technologies that would allow positive development of humankind (economically, socially) parallel to positive development of nature (ecologically). There were about 60 people in the audience, we had great discussions and initiated various international collaborations.

- **NTU Nanyang Technical University, guest of Prof. Ibrahim Abdulhalim (Ben Gurion University)**
Singapore (2014)
Seminar Lecture: “What is a physicist doing in the jungle? Biomimetics of the rainforest”
- **General Engineering Research Institute (GERI), guest of Prof. Xun Chen, John Moores University**
Liverpool, UK (2014)
Seminar Lecture: “The future of manufacturing”
- **Austrian Institute of Technology, Nanobiotechnology Dept.**
Vienna, Austria (2014)
Seminar Lecture: “What is a physicist doing in the jungle? Biomimetics of the rainforest”
- **Sir Karl Popper Schule**
Wiedner Gymnasium (2014)
'Experts go Popper' Lecture: “Was macht eine Physikerin im Dschungel? Auf den Spuren einer Biomimetik des Regenwaldes”
- **Biomimetics and Biomimicry Workshop: Applications for Desalination**
Waterhub Singapore, Singapore (2014)
Report: “Bridging Biology and Engineering”
- **Intl. Conference “Design for sustainable well-being & empowerment”**
Indian Institute of Science IISc, Bangalore, India (2014)
Keynote Presentation: “Bridging theory to practice: Biomimetic nanoscience and nanotechnology to design for society”

This was the first keynote I ever gave to people from the social sciences. I introduced biomimetics and nanotechnology, and new, bioinspired ways to design functional beautiful structures that contribute to sustainable development and that are readily available for the poor. Besides the keynote, was leading several educational biomimetic virtual jungle walks in the wild parts of the campus of IISc, the premier tertiary education and research institution in this country with more than 1.2 billion people. There were about 250 people in the audience.
- **Workshop “Tribology and Art”**
Austrian Center of Competence for Tribology AC²T research Ges.m.b.H., Wiener Neustadt (2014)
Keynote Presentation: “The art and science of tribology”

Tribologically optimized systems are of exquisite functional beauty. This keynote will feature beautiful tribosystems across scales, and dissolve the border between science, technology and art as well as natural and artificial systems.

- **Institute of Bioengineering, School of Engineering & Materials Science**
Queen Mary University of London, London, UK
Seminar Lecture: “Driller, grinders and cutters in living nature and their inspirational potential for biomimetic devices”
- **National Association of Gifted Children Malaysia Conference “Nurturing Gifted Minds: A Journey”**
Monash University, Subang Jaya, Malaysia (2014)
Keynote Presentation: “Nurturing mind: From knowledge to understanding”
This keynote presented my personal experience with the education of gifted children in Austria, and highlighted some of the most important aspects of my personal and professional development. There were about 300 attendees, mainly international researchers working in education of gifted children and parents of gifted Malaysian children.
- **International Symposium on Insects**
Malacca, Malaysia (2014)
Keynote Presentation: “Biomimetic Nanotechnology inspired by insects”
This talk revealed the huge inspirational potential of insects for applications in science and technology as well as in the arts. I gave examples of inspiring organisms for our own work and present related prize-winning prototypes (water finder, navigational device). About 250 international researchers attended the symposium.
- **5th World Tribology Congress WTC2013**
Torino, Italy (2013)
Keynote Presentation: “Ecotribology - Development, prospects and challenges”
This talk was the impulse talk for our subsequent panel discussion on ecotribology. On the panel were tribologists (amongst others the head and future head of the Chinese and the U.S. American tribological societies), artists, ecologists and economists. Moderator: Oliver Futterknecht, Austria.
- **Algae Workshop 2013 “Towards greener environment through sustainable algae technology”**
Bangi, Malaysia (2013)
Keynote Presentation: “Algae Nanotechnology”
This keynote was quite a surprise for the algae researchers, since they mainly work on bulk, and not on the single cell level. They were amazed at the functional structures in diatoms, and their beauty. I touched structural colours, biomineralization, micromechanical optimization, to name a few. There were about 150 people in the audience.
- **4th International Conference of Bionic Engineering (ICBE'13)**
Nanjing, China (2013)
Invited Lecture: “What is a physicist doing in the jungle? Biomimetics of the rainforest”

- **Malaysian Nature Society MNS Annual General Meeting AGM 2013**
Kuala Lumpur, Malaysia (2013)
Invited Lecture: “What is a physicist doing in the jungle? Biomimetics of the rainforest”
- **UKM-Flinders Nanotechnology Summer School**
Universiti Kebangsaan Malaysia (2013)
Invited Lecture: “What is a physicist doing in the jungle? Biomimetics of the rainforest”
- **Seminar Lecture, Faculty of Biosciences and Medical Engineering, Universiti Teknologi Malaysia**
Johor, Malaysia (2013)
“What is a physicist doing in the jungle? Biomimetics of the rainforest”
- **Seminar Lecture, Department of Physics with Electronics, School of Science and Technology, University Malaysia Sabah**
Kota Kinabalu, Malaysian Borneo (2013)
“What is a physicist doing in the jungle? Biomimetics of the rainforest”
- **3rd Global Conference for Academic Research on Scientific and Emerging Technologies GCARSET2013**
Kuala Lumpur, Malaysia (2013)
Keynote Presentation: “Biomimetics for Emerging Economies”

In this keynote I stated the importance of becoming a zero-net waste society. □ We need to develop new ways of resource management and industrialisation that does not negatively influence life on Earth. □ We might achieve this by sustainable biomimetics. □ Emerging nations are great for initiating such an approach, since they provide new plain ground to build on, and can more easily start anew rather than countries with already established routines.

The talk was attended by about 50 participants from 10 countries.

- **7th International WiNET Symposium “Building blocks of life”**
University of Hannover, Germany (2013)
Invited Lecture: “Layers - Schichten aus der Sicht der Physik”
- **Embryogenesis Course**
Second Life ®, Cyberspace (2013)
Invited Lecture: “Nanobioconvergence”
- **First International Conference “Sustainability through Biomimicry: Discovering a World of Solutions Inspired by Nature”**
Dammam, Kingdom of Saudi Arabia (2012)
Keynote Presentation: “Sustainability through Biomimetics: Lessons from Attenborough, Loos and Biornametics”

I was invited to give the keynote address at this conference that mainly dealt with biomimicry, biomimetics and related sustainability aspects, especially in architecture and design. My address started with an overview of the current state of the planet, then dealt with aspects of sustainability in Adolf Loos’s famous essay “Ornament and crime” and finally treated biomimetics and how we can apply it in a sustainable way to address major problems of humankind such as water, sustainable development, science and technology, and population and resources.

About 550 people from more than ten countries attended this keynote address.

- **Momentumkongress 2012 “Demokratie”**
Hallstatt, Austria (2012)
Lecture: “Science Graffiti ©”
- **Momentumkongress 2012 “Demokratie”**
Hallstatt, Austria (2012)
Lecture: “Das Eliten-, Herrschafts- und Demokratietheater”
- **MINILUBES Close Down Meeting**
Austrian Center of Competence for Tribology, Wiener Neustadt, Austria (2012)
Keynote Presentation: “Bridging the Gap between Academia and Industry: Introducing the Case Method for Tribology”

The New Asian Case Method is a method we propose for problem solving in tribology. It is inspired by the Havard Case Method, and gives students and researchers an online available, upscaleable, amendable toolbox of tribology cases that can be upgraded to an international standard in tribology. It helps to manage over information, and perform a transfer of a huge amount of quantitative research results into quality approaches.

About 80 people, amongst them about 25 new tribology PhDs, attended the lecture.
- **6th International Colloquium Micro-Tribology'12**
Osieck-Warsaw, Poland (2012)
Keynote Presentation: “Introducing the New Asian Case Method to micro- and nanotribology”

The New Asian Case Method is a method we propose for problem solving in tribology. It is inspired by the Havard Case Method, and gives students and researchers an online available, upscaleable, amendable toolbox of tribology cases that can be upgraded to an international standard in tribology. It helps to manage over information, and perform a transfer of a huge amount of quantitative research results into quality approaches.

About 30 micro- and nanotribology professors (all invited speakers) attended the lecture.
- **6th International Colloquium Micro-Tribology'12**
Osieck-Warsaw, Poland (2012)
“What is the physicist doing in the jungle”
- **Private Seminar Lecture for Archbishop Andrzej Dziega, University Professor and former Dean of Church Law**
Szczecin, Poland (2012)
“What is a physicist doing in the jungle? Biomimetics of the rainforest”
- **Seminar Lecture, Faculty of Law and Administration, Szczecin University, Szczecin, Poland**
Szczecin, Poland (2012)
“What is a physicist doing in the jungle? Biomimetics of the rainforest”
- **JAST (Japanese Society of Tribologists) - MYTRIBOS (Malaysian Tribology Society) Meeting 2012**
Kuala Lumpur, Malaysia (2012)
Invited Lecture: “The Asian Case Method for tribology”

- **Applied Geoinformatics for Society and Environment 2012 (AGSE 2012) Forum**
Johor Bahru, Malaysia (2012)
Invited Workshop: “Networking implications for students, alumni and young researchers”
- **Fundamental Science Congress 2012 FSC2012**
UPM Serdang, Malaysia (2012)
Invited Lecture: “Biomimetic development of technology to assist, enhance and expand human sensory perceptions - On the importance of collaboration with the fundamental sciences”
- **The First Pakistan International Biophysics Symposium including 1st National Biophysics Student Meeting and Research Competition**
Department of Biomedical Engineering, NED University of Engineering & Technology, Karachi, Pakistan (2012)
Guest Speech: “The era of the nano-world and opportunities for Pakistan”

In this speech, which was attended by about 400 people, mainly from Pakistan, but also from about 6 other countries, I concentrated on the 15 global challenges as annually identified by the Millennium project, and how specifically for the related problems important for Pakistan we can use biophysics and biomimetics to address them. Amongst the attendees of my lecture was the 97 year old rector of NED University of Karachi.
- **The First Pakistan International Biophysics Symposium including 1st National Biophysics Student Meeting and Research Competition**
Department of Biomedical Engineering, NED University of Engineering & Technology, Karachi, Pakistan (2012)
Keynote Presentation: “Biophysics in an age of convergence: Challenges and prospects”

In my keynote, that was attended by about 400 people from about 7 countries, I focused on biophysical approaches in contributing to successfully address challenges of our time, and outlined opportunities that arise from the methodology.
- **The First Pakistan International Biophysics Symposium including 1st National Biophysics Student Meeting and Research Competition**
Department of Biomedical Engineering, NED University of Engineering & Technology, Karachi, Pakistan (2012)
Lecture: “A new generation of MEMS in medicine to assist, enhance and expand human sensory perceptions”
- **6th International WiNET Symposium “Building blocks of life”**
MedUni Vienna, Austria (2012)
Invited Lecture: “Fluids”
- **Conference “New Materials in the Age of Convergence”**
Havana University, Cuba (2012)
Invited Lecture: “Nanobioconvergence”
- **Embryogenesis Course**
Second Life ®, Cyberspace (2012)
Invited Lecture: “Nanobioconvergence”
- **Photo Review Session “Expedition to Maliau Basin, August / September 2011”**

International Chamber of Commerce and Industry (MICCI), Plaza Mont Kiara, Kuala Lumpur, Malaysia (2012)

Lecture: “What is a Physicist Doing in the Jungle? Biomimetics Research for Sustainability”

- **5th Workshop on Manufacturing Technologies for a Sustainable Society “Bio-inspired Nanostructures, Systems, and Manufacturing”**
Suzhou Industrial Park, China (2011)
Invited Lecture: “Towards a New Type of Science for Successfully Addressing the Global Challenges for Humankind”
- **International Workshop on Nanotechnology in the Edge of Convergence**
UKM Bangi, Malaysia (2011)
Invited Lecture: “Bionanoconvergence”
- **RTC2011 Regional Tribology Conference**
Langkawi Island, Malaysia (2011)
Keynote Presentation: “Green Nanotribology and Sustainable Nanotribology in the Frame of the Global Challenges for Humankind”

In this keynote presentation I stressed the difference between green nanotribology and sustainable nanotribology, and exemplified how important such approaches are in today’s world, exemplified by the global challenges for humankind relevant for tribology (energy, science and engineering) and the most serious problems we currently face, identified by Jared Diamond. The audience consists of about 100 tribologists, mainly from Malaysia, but there were also key-players from India, Iran and Japan. The audience (about 200) consisted of mainly Malaysian Tribologists, with some international special guests.
- **Joint Seminar on Nanotechnology between IMEN-UKM and PPET-LIPI (Research Center for Electronics and Telecommunication - Indonesian Institutes of Sciences)**
Yogyakarta, Indonesia (2011)
Invited Lecture: „Bioinspired Navigation and Water Vapour Detection Realized with MEMS “
- **Momentumkongress „Gleichheit”**
Hallstatt, Austria (2011)
Lecture: “Nachhaltige, egalitäre Bildung”
- **DGM Conference „Friction, Wear and Wear Protection”**
Karlsruhe, Germany (2011)
Invited Lecture: “Bionanotribology”
- **The 5th Korea-Malaysia Joint Workshop on Nanotechnology**
Seoul, Korea (2011)
Invited Lecture: “On the Way Towards a MEMS-assisted Magnetic Sense for Humans”
- **International Seminar on Environmental Sciences ISES 2011**
Andalas University, Padang, Indonesia (2011)
Keynote Presentation: „Towards a New Type of Science for Successfully Addressing the Global Challenges for Humankind”

Focusing on understanding rather than on learning by heart is the only way to obtain truly interdisciplinary scientists. Especially in nanotechnology, where all

the sciences meet and intertwine, a new way of teaching and accessing research results is necessary. We proposed in this keynote a new type of science that is based on three principles: towards the topic, towards the colleagues, towards the public. Careful consideration of best-practice approaches in Eastern and Western science provides the basis for a joint approach that yields knowledge accessible for all, for the benefit of humankind, and for sustainability of the world around us. The audience consisted of about 300 researchers, students, pupils and the general public.

- **Institute Seminar**
Lulea University of Technology, Sweden (2011)
Seminar Lecture: „Biomimetics in Tribology: Materials, Structures and Processes”
- **ECOTRIB 2011 – 3rd European Conference on Tribology arranged jointly with Viennano '11 – 4th Vienna International Conference on Nano Technology**
Vienna and Wiener Neustadt, Austria (June 7-9, 2011)
Plenary Address: “Green Nanotribology - Challenges, Development and Opportunities”

In this plenary address I defined the emerging field of green nanotribology and identified agents, surfaces and processes as its three basic aspects. I stressed that green nanotribology focuses on sustainable solutions; in lubrication, for example, ultimately, not the perfect lubricant counts, but the development/usage of finished surfaces that do not need lubricants at all. The audience consists of about 400 tribologists and nanotechnologists, with close connection to industry.
- **5th International WiNET Symposium “Building blocks of life”**
Dortmund, Germany (2011)
Invited Lecture: “In the Dark: Temperature Sensing, Magnetosensing, Echolocation and Electroreception in Blind Animals - And What we can Learn From Them for New Technological Devices”
- **SLIVER Gallery Series Panel Discussion “BIORNAMETICS - Architecture Defined By Natural Patterns”**
University of Applied Arts, Vienna, Austria (2011)
- **Seminar Biokejuruteraan, Penilaian Ekosistem & Spesies 2011**
UKM Bangi, Selangor, Malaysia (2011)
Keynote Presentation: “Ekspedisi Saintifik Lata Jarum 2009: Views from the physicists”
- **Institute for Fine Arts**
University of Applied Arts, Vienna, Austria (2010)
Seminar Lecture: “Strukturfarben in Biologie, Kunst und Technik”
- **The 4th Malaysia- Korea Joint Workshop on Nanotechnology**
Putrajaya, Malaysia (2010)
Invited Lecture: “Bioinspired MEMS to Assist, Enhance and Expand Human Auditory Capabilities: Development of a New Generation of MEMS in Medicine”
- **Indo-Austrian Symposium on Materials Engineering**
Hyderabad, India (2010)
Invited Lecture: “Green Nanotribology - Challenges, Development and Opportunities”

- **ESCINANO 2010: International Conference on Enabling Science and Nanotechnology**
KLCC Convention Center, Kuala Lumpur, Malaysia (2010)
Invited Lecture: “Nanocolours: Correlating Structure With Function”
- **WEMESURF Close Down Meeting**
Austrian Center of Competence for Tribology, Wiener Neustadt, Austria (2010)
Invited Lecture: “New Ways of Scientific Publishing and Accessing Human Knowledge Inspired by Transdisciplinary Approaches to Tribology”
- **2nd Biornametics Seminar and Workshop**
Universität für Angewandte Kunst Wien (Vienna University of Applied Arts), Vienna, Austria (2010)
Lecture: „Structural Colors in Biology, Engineering and the Arts: Bauplan, Analysis and Applications”
- **Institute of Natural Science and Technology in Art**
Akademie der Bildenden Künste (Academy of Fine Arts), Vienna, Austria (2010)
Seminar Lecture: “Strukturfarben in Biologie, Kunst und Technik”
- **Institute for Anatomy, Histology and Embryology**
University of Veterinary Medicine Vienna, Austria (2010)
Seminar Lecture: “Nanomedizin und Biomimetik - Konzepte und Anwendungen”
- **Bionik-A: 2nd International Symposium on Biomimetics 2010**
Villach, Austria (2010)
Plenary Address (Evening Lecture): “The Contribution of Biomimetics to Address Global Challenges for Humankind”
- **3rd International Conference of Bionic Engineering (ICBE’10)**
Zhuhai, China (2010)
Invited Lecture: “Biomimetics: Challenges, Development and Opportunities”
- **HOTSCIENCE Forum “Should nanotech be part of our school curriculum?”**
Petronas Twin Towers Level 5, Kuala Lumpur, Malaysia (2010)
Invited Lecture: “Nanotechnology in the School Curriculum: The Austrian Perspective”
- **Institute of Physics**
Szczecin University, Poland (2010)
Seminar Lecture: “Biomimetic Nanotechnology: A Powerful Means to address Global Challenges”
- **Workshop “Palaeoenvironmental reconstructions & biostratigraphy: introduction and application of siliceous microfossils”**
Szczecin, Poland (2010)
Invited Lecture: “Learning From Diatoms: Biomimetic Nanotechnology Approaches”
- **Gender Art Lab**
Universität für Angewandte Kunst Wien (Vienna University of Applied Arts), Vienna, Austria (2010)
Seminar Lecture: „Engineering Meets Biology Meets Art in the Malaysian Jungle”

- **1st Biornametics Seminar and Workshop**
Universität für Angewandte Kunst Wien (Vienna University of Applied Arts), Vienna, Austria (2010)
Lecture: „Correlating Structure With Function on the Nanoscale: Structural Colours”
- **Institut d'Electronique Fondamentale**
Université Paris-Sud 11, Orsay, France (2010)
Seminar Lecture: „Biomimetic Nanotechnology: A Powerful Means to Address Global Challenges”
- **Symposium „Framing the Influence of Nature in Human’s Aesthetic & Application”**
Dasein Academy of Art, Kuala Lumpur, Malaysia (2010)
Plenary Address: „Structural Colours in Nature, Technology and the Arts - Theoretical Basis, Some Examples and Exciting Biomimetics”

The director of the Center for Arang Asli Research and I were invited to give plenaries at this event. The audience consisted of art students and staff, mainly from the design area. I introduced biornametics to them, and told them about biomimetics in the Malaysian rainforest, and what designers could benefit from such field studies.
- **3rd Nanoscience & Nanotechnology Symposium**
Bandung, Indonesia (2010)
Keynote Presentation: „Correlating Nanostructures with Function: Structural Colours in Wings of a Malaysian Beetle”

The nanotechnologists at Bandung who had invited me to give a keynote at their symposium were very amazed at the beautiful and function nanostructures that nature offers, and from which we as scientists, physicists and engineers can learn so much. I talked about Tina’s Atomic Force Microscopy work on the carpenter bee wing, and about structure-function relationships on the nanoscale. The audience was quite international, with many Indonesians working in various countries (US, Canada, Europe, etc.) and Japanese researchers present.
- **Conference on the Marine Ecosystem of Malaysia (COMEM 2010)**
Cherating, Pahang, Malaysia (2010)
Lecture: „3D Corporate Tourism in the Marine Sciences: Application-Oriented Problem Solving in Marine Ecosystems”
- **Joint Seminar on Nanotechnology between IMEN-UKM and PPET-LIPI (Research Center for Electronics and Telecommunication - Indonesian Institutes of Sciences)**
Putrajaya, Malaysia (2010)
Invited Lecture: „Bioinspired MEMS to Assist, Enhance and Expand Human Auditory Capabilities”
- **Workshop on BioMEMS Sensors**
Malaysian Institute of Microelectronic Systems (MIMOS), Technology Park Malaysia, Kuala Lumpur, Malaysia (2010)
Invited Lecture: „Correlating Structure with Function on the Nanoscale: Structural Colors”
- **European Forum Alpbach, Technology Forum, Seminar Week, Seminar 13, Biomimetics: Learning from nature for technical innovations’**

Alpbach/Tirol (2010)

Seminar Lectures: „Structural colors” and „Bionanotribology”

- **European Forum Alpbach, Technology Forum, Arbeitskreis 06 'Tribologie - Unterschiedliche Betrachtungen von Reibung und Verschleiss'**
Alpbach/Tirol (2010)

Invited Lecture: “Kieselalgen und Ferrarimotoren”

- **FH Joanneum GmbH (University of Applied Sciences Joanneum)**
Kapfenberg, Austria (2010)

Seminar: “Biomimetics and Nanotechnology”

- **4th International WiNET Symposium “Building blocks of life IV”**
Semriach, Austria (2010)

Invited Lecture: “Bioinspired MEMS to Assist, Enhance and Expand Human Auditory Capabilities”

- **2nd ISESCO Workshop and Conference on Nanotechnology**
Bangi, Selangor, Malaysia (2010)

Plenary Address: “Biomimetic Nanotechnology: A Powerful Means to address Global Challenges”

ISESCO is the equivalent of UNESCO in the 57 Islamic countries. At this plenary presentation, I focused on the major 15 global challenges for humankind, such as Energy, Rich/Poor Gap, Science and Technology and Health, and current and possible future contributions of my field to successfully face these challenges. The head of ISESCO invited me immediately after my presentation to join their “Expert Panel on Nanotechnology”, which offers great opportunities to contribute my share to strategic nanotechnology development in the increasingly important Islamic countries. About 200 people attended the meeting that lasted for three days.

- **FH Technikum Wien (Univ. of Applied Sciences Technikum Wien)**
Vienna, Austria (2009)

Guest Professor Lectures: “Biomimetics, Nanotechnology and Nanomedicine”

- **2nd International Symposium on TriboCorrosion and 3rd Vienna International Conference on Nanotechnology Viennano09**

Wiener Neustadt, Austria (2009)

Plenary Address: “Nanomedicine and Biomimetics: Life Sciences Meet Engineering & Physics”

Andreas Pauschitz, CEO of the Austrian Center of Tribology and organizer of the 2nd International Symposium on TriboCorrosion invited me to give this plenary lecture. It took place in a session where the attendants of the TriboCorrosion Symposium were still there and the attendants of the Viennano09, the 3rd Vienna International Conference on Nanotechnology, were already at the venue, and therefore addressed tribologists as well as nanotechnologists. I presented an overview of the emerging fields of nanomedicine and biomimetics to these two scientific and technical communities, and presented our results from collaboration with the Pharmacy Department of the University of Vienna and major results of our BioScreen Project (funded by the Austrian Society for the Advancement of Plant Sciences) that I currently conduct in the rainforests of the Malay peninsula

and in Borneo concerning their innovational potential for new nanotechnological applications. About 500 people attended the meetings which lasted for one week.

- **3rd Vienna International Conference on Nanotechnology
Viennano09**
Vienna and Wiener Neustadt, Austria (2009)
Panel Discussion Leader: “Future of Nanobiotechnology”
- **Institute for Sensor and Actuator Systems, Department for Microsystems Technology, University of Technology Vienna**
Vienna, Austria (2009)
Seminar Lecture: “Scanning Probe Microscopy Across Dimensions”
- **National Tribology Conference**
Kuala Lumpur, Malaysia (2009)
Plenary Address: “Tribology in Biology: Biomimetic Studies Across Dimensions and Across Fields”

Tribology, the science of friction, adhesion, lubrication and wear, increasingly gets inspiration from biology. Whereas in former times, biotribology mainly was concerned with hip and knee implants, the field is much wider today. I introduced biomimetics to the Malaysian tribology community, and highlighted its important current and possible future contributions to tribological issues in nanoelectronics (NEMS, 3D MEMS) and nanophotonics. Immediately after the lecture, I was invited to join the Editorial Board of the International Journal of Mechanical and Materials Engineering. About 100 participants attended the meeting, which lasted for two days.

- **Forest Research Institute of Malaysia**
Kepong, Malaysia (2009)
Seminar Lecture: “Structural Colours in Biology and how These Natural Micro- and Nanostructures Inspire Technological Innovations”
- **ADHESINT Workshop**
St. Petersburg, Russian Federation (2009)
Invited lecture: “Geckoes, White Blood Cells and Diatoms - How Biology Inspires Novel Dry, Switchable and Self-Healing Adhesives”
- **Institute of Nanostructured Materials and Photonics**
Weiz, Austria (2009)
Seminar Lecture: “Structural Colours in Biology and how These Natural Micro- and Nanostructures Inspire Technological Innovations”
- **Joint Seminar on Nanotechnology between IMEN-UKM and PPET-LIPI (Research Center for Electronics and Telecommunication - Indonesian Institutes of Sciences)**
Bali, Indonesia (2009)
Invited Lecture: “Applied Biomimetics: Low Noise Aircraft Design”
- **5th International Colloquium Micro-Tribology ‘09**
Milowka, Poland (2009)
Keynote Presentation: “Biomimetics in Micro- and Nanotribology”

Prof. Zygmunt Rymuza from the University of Technology Warsaw invited me again to present the Keynote Presentation at this colloquium. I stressed possible contributions of biomimetics in nano- and microtribology, and highlighted the

interesting development that the “hard sciences” such as chemistry, physics and engineering increasingly overlap with biology in terms of concepts and ideas, and that a joint common language can be developed, opening the huge body of knowledge in each field for the other fields, resulting in tremendous synergistic effects.

- **Risk Governance and Technology Assessment Nanotechnologies - (Unwanted) Health Aspects of Nanomaterials**

Vienna, Austria (2009)

Rapport

- **20th North American Diatom Symposium**

Iowa Lakeside Laboratory, USA (2009)

Plenary Address: “Learning From Diatoms: Biomimetic Approaches”

The field of diatom nanotechnology is of increasing importance. Besides excellent material and micromechanical properties, the optical properties of diatoms, glass making microalgae, cannot be stressed enough. I have been working in this field for more than 10 years now, and I simply love it. Bridging the gap between biologists, ecologists, engineers and physicists is a wonderful challenge, and the American as well as various international attendants loved to hear about inspiration from diatoms for diverse nanotechnological applications such as development of novel self-repairing underwater adhesives, mechanically optimized hinges and interlocking devices for emerging 3D MEMS and optical components.

- **34th Annual Conference of the MSBMB & 3rd ASEAN Biochemistry Conference**

Kuala Lumpur, Malaysia (2009)

Plenary Address: “Biomimetics”

The Deputy Vice Chancellor for Innovation and Research of my current university, Universiti Kebangsaan Malaysia, and past president of the Malaysian Society for Biochemistry and Molecular Biology, Prof. Rahmah Mohammed, invited me to introduce biomimetics to the national and international participants of this meeting. I stressed the importance of learning from nature for emerging technological applications as well as for the optimization of current approaches.

- **International Seminar on Science and Technology “The role of sciences and technology to improve the quality of life”**

Bukittinggi, Indonesia (2009)

Plenary Address: “Structural Colors in Biology and How These Natural Micro- and Nanostructures Inspire Current Nanotechnology”

Structural colours are omnipresent in nature and serve as inspiration for emerging nanophotonic devices and applications. I introduced the physics of structural colours, the biomimicry innovation method and presented various examples from nature, highlighting bioinspired nanophotonic developments.

- **Nanotech Malaysia**

Kuala Lumpur, Malaysia (2009)

Plenary Address: “Biomimetics”

Nanotech Malaysia 2009 was a conference and exhibition with more than 250 national and international attendants. I introduced the concept of biomimetics,

the biomimicry innovation method and successful examples of technology transfer from nature to nanoelectronic and nanophotonic applications.

- **Nanotech Malaysia**
Kuala Lumpur, Malaysia (2009)
Lecture: “Nanomedicine: Possible Early Diagnostics of Leukemia via Atomic Force Microscopy of Red Blood Cells”
- **International Minisymposium “Nanotechnology in Health and Medicine”**
Kuala Lumpur, Malaysia (2009)
Invited Lecture: “Nanomedicine: Possible Early Diagnostics of Leukemia via Atomic Force Microscopy of Red Blood Cells”
- **International Workshop on Nanotechnology and Application**
Vung Tau, Viet Nam (2009)
Invited Lecture: “Nanomedicine and Biomimetic Nanotechnology - Concepts and Applications”
- **Ekspedisi Saintifik Lata Jarum**
Lata Jarum, Malaysia (2009)
Lectures: “Biomimetics and Nanomedicine - Concepts and Applications” and “The Rainforest as our Nanotechnology Lab: Biomimetics of the Reflective Properties of the Eyes of Night-Active Spiders”
- **EU FP6 Network Women in nano, Final European Workshop**
Dresden, Germany (2008)
Invited lecture: “Structural Colours in Biology and how these Natural Micro- and Nanostructures Inspire Current Technology”
- **Biomimicry Guild Costa Rica Design Workshop**
Uvita, Costa Rica (2008)
Lecture: “Bioinspired Concept for Novel Low Noise Aircraft”
- **XV Escuela internacional de verano en ciencia y tecnología de materiales**
Universidad de la Habana, Cuba (2008)
Guest Professor Lecture: “Structural Colors in Biology”
- **XV Escuela internacional de verano en ciencia y tecnología de materiales**
Universidad de la Habana, Cuba (2008)
Guest Professor Lecture: “Tribology in Biology”
- **XV Escuela internacional de verano en ciencia y tecnología de materiales**
Universidad de la Habana, Cuba (2008)
Guest Professor Lecture: “Scanning Probe Microscopy Across Dimensions”
- **XV Escuela internacional de verano en ciencia y tecnología de materiales**
Universidad de la Habana, Cuba (2008)
Guest Professor Lecture: “Science and Industry - Cooperation Aspects”
- **XV Escuela internacional de verano en ciencia y tecnología de materiales**
Universidad de la Habana, Cuba (2008)

- Guest Professor Lecture:** “Multi-Method Demonstration of Oligomer and Isomer Specific Lubrication”
- **EU FP6 Research Training Network WEMESURF Summer School**
Vienna, Austria (2008)
Invited lecture: “Networking Implications for Young Researchers”
- **20th International Diatom Symposium**
Dubrovnik, Croatia (2008)
Lecture: “Microfluidic Simulation of a Colonial Diatom Chain Reveals Pumping Behavior”
- **Meeting of the European Materials Research Society (E-MRS)**
Warsaw University of Technology, Poland (2008)
Invited lecture: “Bacilli, Green Algae, Diatoms and Red Blood Cells – how Biology Inspires Novel Materials in Nanoarchitectural Applications”
- **Tribologie Fachtagung 2008 mit internationaler Beteiligung**
Göttingen, Germany (2008)
Plenary Address: Tribo-Talk “Nanotechnologie und Tribologie - eine neue Dimension”

In this presentation I introduced nanotechnology to tribologists, and highlighted the major technological innovations that will emerge in this area in the near future. There were about 200 attendants from science and industry; the meeting lasted for one day.
- **Bmvit Fachtagung Bionik - An der Schnittstelle zwischen Biologie und Technik.**
Vienna, Austria (2008)
Invited Lecture: “TU BIONIK: Universitätsweites Kooperationszentrum Bionik/Biomimetics”
- **Institute of Limnology, Austrian Academy of Sciences**
Mondsee, Austria (2008)
Seminar Lecture: “Biotribology on the Micrometer Scale: Hinges and Interlocking Devices in Diatoms”
- **GenderWorkshop-08, FH Technikum Wien**
Vienna, Austria (2008)
Workshop: “Strukturfarben in der Biologie – eine Inspirationsquelle erster Qualität für neue technische Entwicklungen”
Panel Discussion: “Rollenbilder und Perspektiven in der Technik”
- **1st TU BIONIK Workshop**
Vienna University of Technology, Austria (2008)
Lecture: “The Biomimetics Project BioScreen”
- **HTU Panel Discussion Series “Technik hoch Management”**
Vienna University of Technology, Austria (2008)
Panel Discussion: “Was bringt die TU fürs Leben?”
- **European City of Science**
Grand Palais, Paris, France (2008)
Lecture: “Structural Colours”
- **European City of Science**

- Grand Palais, Paris, France (2008)
Lecture: “Reflected Light Microscopy”
- **European City of Science**
Grand Palais, Paris, France (2008)
Lecture: “Scanning Probe Microscopy Across Dimensions”
- **Junior Scientist Conference**
Vienna University of Technology, Austria (2008)
Plenary Address: “Scanning Probe Microscopy Across Dimensions”
Prof. Hans Kaiser and Prof. Ewald Benes from the Scientific Committee of the Junior Scientist Conference invited me to give a plenary lecture in the session “Material Sciences “ at this meeting. I was talking for one hour, the number of attendees was about 150, and the meeting lasted for 3 days. We were three keynote and three plenary speakers at this meeting.
- **Dr. Franz Slawik-Symposium “Gegen Vorurteile”**
Schwechat, Austria (2008)
Panel Discussion: “Trends und Rollenmodelle”
- **Vortragsreihe Kunst - Forschung – Geschlecht**
University of Applied Arts Vienna, Vienna, Austria (2008)
Invited Lecture: “Science and art: Genderaspekte der naturwissenschaftlichen und künstlerischen Untersuchungen komplexer biogener Glasstrukturen (Kieselalgen). Die Kieselalge - Das Objekt der Begierde”
- **3. Wiener Biomaterialsymposium**
University of Technology Vienna, Austria (2008)
Lecture: “Microfluidic Simulation of a Colonial Diatom Chain Reveals Pumping Behaviour”
- **International Meeting “SciCom - Opportunities and Limits of Science Communication**
Museumsquartier Wien, Vienna, Austria (2008)
Panel Discussion: “Science Lounge - Das Gottes-Teilchen. Wenn die Naturwissenschaft die Antworten liefert, brauchen wir dann noch Religion?”
- **2nd European Nanotechnology Partnering Day**
“Co-operation: Nano 07”
Wiener Neustadt, Austria (2007)
Plenary Address: “Science & Industry: Cooperation Aspects”
Originally Knut Konsemüller, CEO of Böhler Industries and head of the Austrian Strategy Board for Research and Development was supposed to give this lecture. When he was indisposed, Rainer Gotsbacher from the Austrian Technology Advancement Board ecoplus Wiener Neustadt, asked me if I would give it. I took the chance and talked about this important theme to about 200 people from research and technology, from industry and government, from the press and the radio.
- **Seminar Frauen und Physik**
Vienna University (2007)
Interview
- **2nd Vienna International Conference**
Micro- and Nanotechnology - Viennano07
Wiener Neustadt, Austria (2007)

Plenary Address: “Social, Health and Ethical Implications of Nanotechnology”

There are generally two plenary speakers at the Viennano Conferences. In 2007, the president of the Austrian Academy of Sciences, Prof. Peter Schuster, and I gave the plenary lectures. It was important to me to convey the theme of ethics, health and social implications of nanotechnology to the attendees. There were about 200 people listening, I talked for one hour and the whole conference lasted for three days.

- **Max-Planck Institut für Kolloid- und Grenzflächenforschung**
Potsdam, Germany (2007)
Seminar lecture: “Natural MEMS, Glassy Rubberbands and Self-healing Adhesives – a Glance at Diatoms, and what they can teach us”
- **Institute of Biophysics and Nanosystems Research, Austrian Academy of Sciences**
Graz, Austria (2007)
Seminar lecture: “Natural MEMS, Glassy Rubberbands and Self-healing Adhesives – a Glance at Diatoms, and what they can teach us”
- **ECOTRIB Joint European Conference on Tribology**
Ljubljana, Slovenia (2007)
Lecture: “Isomer Specific Tribological Behaviour of Hydroxyquinolines”
- **1st International WiNET Symposium “Building blocks of life”**
Hamburg, Germany (2007)
Lecture: “Bionanotechnology - Challenges and Opportunities”
- **Technology talks, European Forum Alpbach**
Technologiegespräche, Europäisches Forum Alpbach
Alpbach, Austria (2007)
Invited Lecture: “Algen machen Glas und Bakterien erzeugen Magnete. Was die Materialwissenschaft von der Natur alles lernen kann”
- **International School and Conference on Optics and Optical Materials ISCOMo7**
Belgrade, Serbia (2007)
Invited Lecture: “Structural Colours in Biology”
- **9th Annual Conference of the Yugoslav Materials Society YUCOMAT 2007**
Herceg Novi, Montenegro (2007)
Lecture: “Nanomedicine Performed with the Atomic Force Microscope on Human Red Blood Cells”
- **EU FP6 Network Women in nano, Workshop**
Chalmers University, Gothenburg, Sweden (2007)
Invited Lecture: “Nanosciences at Surfaces”
- **EU FP6 Network Women in nano, Workshop**
Chalmers University, Gothenburg, Sweden (2007)
Invited Lecture: “Networking Implications for Women in Nanosciences and Nanotechnologies”
- **IEEE Conference on Emerging Technologies – Nanoelectronics, NanoSingapore 2006**
Singapore (2006)

- Lecture:** “Nanostructuring Surfaces with Slow Multiply-charged Ions”
- **VIII. Annual Linz Winter Workshop**
“Advances in single-molecule research for biology & nanoscience”
Linz, Austria (2006)
Lecture: “UHV and Ambient AFM Investigations of Surfaces Nanostructured with Slow Singly- and Multiply-charged Ions”
 - **Seminar series “Analytical Chemistry”**
Institut für Chemische Technologien und Analytik
Vienna University of Technology, Vienna, Austria (2006)
Seminar Lecture: “Rastersondenmikroskopie: von lebenden Zellen zu einzelnen Elektronenspins”
 - **20. Treffen der deutschsprachigen Diatomologen mit internationaler Beteiligung**
Trebou, Southern Bohemia (2006)
Lecture: “Diatoms and Tribology - Asking New Questions”
 - **École Nationale Supérieure des Mines de Paris**
Paris, France (2006)
Seminar Lecture: “Grain Scale Investigations into Fretting Contacts”
 - **Seminar series of the Division of Design of Precise Devices, Warsaw University of Technology, Faculty of Mechatronics, Institute of Micromechanics and Photonics**
Warsaw, Poland (2006)
Seminar Lecture: “Biology for Nanotechnologists”
 - **Lecture course “Micromechanics” for 3rd year students, Warsaw University of Technology, Faculty of Mechatronics, Institute of Micromechanics and Photonics**
Warsaw, Poland (2006)
Guest Professor Lecture: “Biology for Nanotechnology Students”
 - **IIWE International Institute for Women in Engineering**
Sceaux, France (2006)
Plenary Address: “Networking Implications for Women in Engineering”

This was the second time that I was invited to present my views on networking implications for women in engineering at the IIWE meeting. About 300 mainly women engineers from all over the world (Africa, South America, Asia, Arabia, Russian Federation, Australia, Europe, etc.) met for five days. There were about 10 plenaries, keynotes and invited lectures, and I was talking for two hours.
 - **1st Annual Meeting ITSLEIF**
Sandbjerg, Denmark (2006)
Lecture: “AFM Investigations of Sticking Properties of Biomolecules on Substrates”
 - **Österreichisches Nanoanalytik-Symposium: Nanoanalytik in Wissenschaft und Wirtschaft - Angebot, Bedarf und Problemlösungskompetenz**
Grundlsee, Austria (2006)
Lecture: “Nanoanalytische Methoden am Institut für Allgemeine Physik der Technischen Universität Wien”

- **8th Annual Conference of the Yugoslav Materials Society YUCOMAT 2006**
Herceg Novi, Montenegro (2006)
Lecture: “Biophysics of Green Algae: *Euglena gracilis* Investigated by Atomic Force Microscopy”

- **Berichtskolloquium des Schwerpunktprogramms 1117 der Deutschen Forschungs-Gemeinschaft “Prinzipien der Biomineralisation”**
Physikzentrum Bad Honnef, Germany (2006)
Plenary Address: “Tribology of Biomineralised Structures”

In the focus programme biomineralization of the German research society, all relevant groups from Germany were represented. At every Berichtskolloquium, three plenary speakers from outside the SPP were invited to present their views. I talked for one hour, there were about 150 people listening, and the meeting lasted for three days.

- **Austrian-Russian Science Day: Bilateral Meeting on Nanosciences and Nanotechnology**
Russian Culture Center, Vienna, Austria (2006)
Invited Lecture: “Nanoanalytical and Nano(bio)technological Research Projects at Institut für Allgemeine Physik, Vienna University of Technology”

- **innano Advances in Nano-Biotechnology**
Congress Innsbruck, Austria (2006)
Lecture: “Atomic Force Microscopy Investigation of *Euglena gracilis*, the Producer of a Highly Efficient Monocrystalline Photodetector”

- **Consiglio Nazionale delle Ricerche CNR Pisa, Istituto di Biofisica**
Pisa, Italy (2006)
Seminar Lecture: “From Red Blood Cells to Green Algae: Biophysics Performed with the Atomic Force Microscope”

- **1st Vienna International Conference on Micro- and Nano-Technology**
Vienna, Austria (2005)
Lecture: “Biotribology at the Micro- and Nanoscale as Exemplified by Diatoms”

- **IIWE International Institute for Women in Engineering**
Sceaux, France (2005)
Plenary Address: “Networking Implications for Women in Engineering”

Gay Tischbirek invited me to present my views on networking implications for women in engineering at the IIWE meeting. About 300 mainly women engineers from all over the world (Africa, South America, Asia, Arabia, Russian Federation, Australia, Europe, etc.) met for 5 days. There were about 10 plenaries, keynotes and invited lectures, and I was talking for one hour.

- **4th International Colloquium Micro-Tribology’ 05**
Karwica, Poland (2005)
Keynote Presentation: “Tribology in Biology”

The International Colloquium Micro-Tribology takes place every 4 years. In 2005, Prof. Zygmunt Rymuza from the University of Technology Warsaw, the organizer of these meetings, heard my lecture “Biotribology at the Micro- and Nanoscale as Exemplified by Diatoms” at the 1st Vienna International Conference on Micro- and Nano-Technology in Vienna and invited me as keynote lecturer for his 2005

colloquium. The lecture lasted for one hour, and there were about 150 international attendees. This meeting is well established in the tribology community.

- **32nd Leeds-Lyon Symposium**
Lyon, France (2005)
Lecture: “Development of an Atomic Force Microscope Closed Fluid Cell for Tribological Investigations of Large Samples in Volatile Environments”
- **École Nationale Supérieure des Mines de Paris**
Paris, France (2005)
Seminar Lecture: “Biotribology”
- **Mechanical Engineering Department, University of Leeds**
Leeds, UK
Seminar Lecture: “Biotribological Model Systems for Emerging Micro- and Nano-scale Technologies - Switchable Adhesives and Glassy Rubber Bands”
- **Bionik 2004 International Industrial Conference**
Hannover, Germany (2004)
Lecture: “Surfaces in Relative Motion: Bionanotribological Investigations”
- **NATO Advanced Study Institute**
“From cells to proteins: Imaging nature across dimensions”
Pisa, Italy (2004)
Invited Lecture: “Scanning Probe Microscopy: From Cells to Single Atoms and Beneath”
- **Santa Fe Institute**
Santa Fe, USA (2003)
Lecture: “Does Complexity Always Increase During Major Evolutionary Transitions?”
- **Physics Department, University of California Santa Barbara**
Santa Barbara, USA (2003)
Lecture: “On Complexity”
- **Alfred Wegener Institute Bremerhaven**
Bremerhaven, Germany (2003)
Seminar Lecture: “AFM of Living Diatoms in Ambient Conditions”
- **Institut für Nanostrukturierte Materialien und Photonik**
Weiz, Austria (2002)
Seminar Lecture: “Reisen in den Nanokosmos - Physik und Biologie im kleinsten Rahmen”
- **Bionanotechnology Meeting**
Oxford University, Oxford, UK
Lecture: “Naturally Nanostructured Biomaterials”
- **Telluride Workshop on Neuromorphic Engineering**
Telluride, USA (2002)
Discussion Group: “What is Life?”
- **Institut für Angewandte Physik and Center of Competence Nanoanalytics**
Hamburg University, Hamburg, Germany (2001)
Seminar Lecture: “UHV AFM/STM Investigations of Ion-induced Nanodeflect Formation”

- **Consiglio Nazionale delle Ricerche CNR Pisa, Istituto di Biofisica**
Pisa, Italy (2001)
Seminar Lecture: “Real-time Investigation of Single Biomolecule Interactions Performed with an Atomic Force Microscope Designed for Small Cantilevers”
- **Consiglio Nazionale delle Ricerche CNR Pisa, Istituto di Biofisica**
Pisa, Italy (2001)
Seminar Lecture: “AFM study of Living Diatoms in Ambient Conditions”
- **Università di Pisa, Sezione di Fisiologia del Dipartimento di Fisiologia e Biochimica “Giuseppe Moruzzi”**
Pisa, Italy (2001)
Seminar Lecture: “Probing Protein-protein Interactions in Real Time”
- **Institut für Experimentalphysik, Arbeitsbereich Quantenexperimente und die Grundlagen der Physik**
Universität of Vienna, Vienna, Austria (2001)
Seminar Lecture: “Expeditionen in den Nanokosmos - Methoden und Anwendungen der Rastersondenmikroskopie”
- **Seminar Series “Theoretical Biochemistry”, Institut für Theoretische Chemie und Molekulare Strukturbiologie, Universität Wien**
University of Vienna, Austria
Seminar Lecture: “Einzelmoleküluntersuchungen an Reparaturproteinen mit dem Rasterkraftmikroskop”
- **51. Jahrestagung Österreichische Physikalische Gesellschaft**
University of Technology Vienna, Vienna, Austria (2001)
Lecture: “Untersuchung der Potentialzerstäubung von Oberflächen durch einzelne Ionen mittels UHV-AFM/STM”
- **Institute Seminar, Institut für Theoretische Physik, Vienna University of Technology**
University of Technology Vienna, Vienna, Austria (2001)
Seminar Lecture: “On Chirality”
- **Institute for Biophysics, University Linz**
Linz, Austria (2000)
Seminar Lecture: “*In vivo* AFM of Natural Adhesives of Benthic Diatoms”
- **3rd Euroconference Nanoscience for Nanotechnology**
Oxford University, Oxford, UK (2000)
Lecture: “*In vivo* Nanoscale Investigation of Diatom Adhesive and Structural Properties”
- **50. Jahrestagung Österreichische Physikalische Gesellschaft**
Karl-Franzens Universität Graz, Graz, Austria (2000)
Lecture: “Biom mineralization and Biomimetics - Key Technologies of the 21st Century”
- **44th Annual Meeting of the Biophysical Society**
New Orleans, USA (2000)
Lecture: “Adhesives Made by Benthic Diatoms Studied by *in vivo* Atomic Force Microscopy”
- **Physics Department, University of California Santa Barbara**
Santa Barbara, USA (2000)

- Seminar Lecture:** “Nanostructuring with Slow Highly Charged Ions”
- **Physics Department, University of California Santa Barbara**
Santa Barbara, USA (1999)
Seminar Lecture: “Computational Model for the Physical Limit of Signal Transduction in Inner Hair Cells”
- **Meeting of The Physiological Society**
University College London, London, UK (1999)
Lecture: “Stochastic Resonance due to Inner Hair Cell Endogenous Noise in the Mechano-electric Transduction of Very Weak Tones - a Modelling Study for Several Frequencies”
- **15th North American Diatom Symposium**
Pingree Park Campus, Colorado State University, USA (1999)
Lecture: “Atomic Force Microscopy of Diatoms *in vivo*”
- **Auditory Physiology, University of California Los Angeles**
Peter Narins Lab, Los Angeles, USA
Seminar Lecture: “Modeling the Human Hearing Threshold Curve”
- **Department of Physiology, Emory University School of Medicine**
Atlanta, USA (1998)
Seminar Lecture: “Cochlear Nerve Spontaneous Activity Supports the Detection of Low Level Acoustic Signals”
- **Department of Physiology, Emory University School of Medicine**
Atlanta, USA (1998)
Seminar Lecture: “Modelled Human Hearing Threshold Curve”
- **Vanderbilt University Medical Center**
Nasville, USA (1998)
Seminar Lecture: “Cochlear Nerve Spontaneous Activity Supports the Detection of Low Level Acoustic Signals”
- **Vanderbilt University Medical Center**
Nasville, USA (1998)
Seminar Lecture: “Modelled Human Hearing Threshold Curve”
- **TU-BioMed Minisymposium 1998 “Brain Modelling”**
University of Technology, Vienna, Austria
Lecture: “Stochastic Resonance in the Inner Ear: the Effects of Endogenous Transduction Channel Noise and Stereociliary Thermal Motions on the Human Hearing Threshold In Various Frequency Bands”
- **First International Conference on Stochastic Resonance in Biological Systems**
Arcidosso, Italy (1998)
Lecture: “The Influence of Stochasticity on the Human Threshold of Hearing”
- **Department of Psychology, University of Helsinki**
Helsinki, Finland (1998)
Seminar Lecture: “Modeling the Human Hearing Threshold Curve for Pure Tones: the Effects of Stereociliary Brownian Motion, Endogenous Transduction Channel Noise, Stochasticity in Neurotransmitter Release and Innervation Density in Various Frequency Bands”
- **35th Workshop on Inner Ear Biology**

- University Hospital of Innsbruck, Innsbruck, Austria (1998)
Lecture: “Modelled Human Hearing Threshold Curve”
- **British Society of Audiology short papers meeting on Experimental Studies of Hearing and Deafness**
University College London, London, UK (1998)
Lecture: “Cochlear Nerve Spontaneous Activity Supports the Detection of Low Level Acoustic Signals”
- **Department of Communication and Neuroscience, Keele University**
Keele, United Kingdom (1998)
Seminar Lecture: “Modelled Human Hearing Threshold Curve”
- **International Computer Science Institute**
Berkeley, USA (1998)
Seminar Lecture: “The Influence of Stochasticity on the Human Threshold of Hearing”
- **University of California Berkeley, Ear Club**
Berkeley, USA (1998)
Seminar Lecture: “Stochastic and Deterministic Influences on the Peripheral Coding of Auditory Signals”
- **Stanford University, Center for Computer Research in Music and Acoustics**
Stanford, USA (1998)
Seminar Lecture: “Deterministic and Stochastic Coding of Auditory Signals”
- **Department of Psychology, University of Helsinki**
Helsinki, Finland (1998)
Seminar Lecture: “Deterministic and Stochastic Coding of Auditory Signals”
- **International School of Biophysics: Chaos and Noise in Biology and Medicine**
Ischia, Italy (1997)
Lecture: “Brownian Motion and the Ability to Detect Weak Auditory Signals”
- **Consiglio Nazionale delle Ricerche CNR Pisa, Istituto di Biofisica**
Pisa, Italy (1997)
Seminar Lecture: “Modeling the Kinetics in the Auditory Receptor Cell Using Equivalent Electric Circuits”
- **Crete Course in Computational Neuroscience, Foundation for Research and Technology - Hellas (FO.R.T.H.)**
Heraklion, Greece (1997)
Lecture: “Brownian Motion and the Ability to Detect Weak Auditory Signals”
- **Meeting of The Physiological Society**
University of Bristol, Bristol, UK (1997)
Lecture: “Computational Demonstration that Brownian Motion of Inner Hair Cells Stereocilia may Enhance the Ability to Detect Low Level Auditory Tones from Auditory Nerve Spiking Patterns”
- **Students Competition, Joint Annual Meeting of the German, the Austrian and the Swiss Associations of Biomedical Engineering**
ETH Zürich, Zürich, CH (1996)

Lecture: “Brownian Motion Enhances the Ability to Detect Low Level Auditory Signals”
(Winner of the First Prize)

Popular Science / Outreach Activities

Public Lectures and Workshops

- *Lernen von der Natur: Für besseres Wirtschaften und nachhaltige Technologien*
Volkshochschule Urania, Vienna, Austria (2015)
- *Lecture on Malaysia and biomimetic education virtual jungle walk*
Forest around Steyr, Austria (2014)
- *Educational Biomimetics Jungle Walks (for Mechanical Engineering Professors as well as MSc and PhD students)*
IISc Indian Institute of Science, Bangalore, India (2014)
- *Educational Biomimetics Jungle Walk (for Product Design MSc and PhD students)*
IISc Indian Institute of Science, Bangalore, India (2014)
- *Educational Biomimetics Jungle Walk (for kids up to 14)*
IISc Indian Institute of Science, Bangalore, India (2014)
- *Educational Biomimetics Jungle Walk (for gifted homeschooling kids aged 5-11)*
FRIM Forest Research Institute of Malaysia, Malaysia (2014)
- *Lecture on Malaysia and biomimetic education virtual jungle walk*
Forest around Steyr, Austria (2013)
- *Educational Biomimetics Jungle Walk (for kids aged 5-12)*
Zoo Negara, Kuala Lumpur, Malaysia (2013)
- *Educational Biomimetics Jungle Walks (kids aged 5-15)*
FRIM, Kepong, Malaysia (2013)
- *Educational Biomimetics Retreat*
Whirinaki Rainforest, New Zealand (2013)
- *Exploratory School Learning Quests*
Whirinaki Rainforest, New Zealand (2013)
- *What is a physicist doing in the jungle? Biomimetics of the rainforest*
Engineering Department, University of Auckland, New Zealand (2013)
- *The Business of Nature - Educational Biomimetics Jungle Walk*
Waitakere Ranges, New Zealand (2013)
- *Educational Biomimetics Jungle Walks*
Raptor Watch, Tanjung Tuan, Malaysia (2013)
- *Lernen von der Natur: Für besseres Wirtschaften und nachhaltige Technologien*
VHS Urania, University meets Public, Vienna, Austria (2013)
- *What is a physicist doing in the jungle? Biomimetics of the rainforest*
TEDxKL Lecture, Kuala Lumpur, Malaysia (2012)
- *Learning from nature for engineering: How structural colours and other se-*

- crets of life around us can help change our technology towards sustainability*
Malaysian Nature Society, MNS Kuala Lumpur Headquarters, Malaysia (2012)
- *Auf großer Expedition im Regenwald*
BG/BRG Kapfenberg, Austria (2012)
 - *Impressionen aus Malaysia - Land, Leute, Tiere, Regenwald*
World Day of Prayer (oecumenic annual activity), Theme: “Let justice prevail”,
Writer Country: Malaysia. Kindberg, Austria (2012)
 - *Was ist Biomimetik? Auf den Spuren der Physik des Regenwaldes*
Kepler Salon, Linz, Austria (2011)
 - *Biomimetics*
Lecture at a 4WD Outing, Taman Alam Liar Negeri (Lata Kijang), Negeri Sembilan, Malaysia (2011)
 - *From diatoms to dinosaurs: Biomimetics across scales*
Malaysian Nature Society, Selangor Branch, Kuala Lumpur, Malaysia (2011)
 - *Learning from dinosaurs - strong teeth, tough skin and much more!*
Lecture & Workshop for children, Dinos Alive World Tour Festival, Pusat Sains Negara, Kuala Lumpur, Malaysia, March 15, 2011
 - *Learning from raptors for engineering: Wing-tip inspired drag reduction in race cars, shape-changing airplane wings, and much more!*
Raptor Watch Week, Malaysian Nature Society, Tanjung Tuan (close to Port Dickson), Malaysia (2011)
 - *Schmetterlingsflügel, Pfauenfedern und Stoff, der die Farbe ändert, wenn Ihr ihn anhaucht - die neue Welt der Nanotechnologie*
Lecture & Workshop for children, Technical Museum, Vienna, Austria (2011)
 - *Schmetterlingsflügel, Pfauenfedern und Stoff, der die Farbe ändert, wenn Ihr ihn anhaucht - die neue Welt der Nanotechnologie*
Lecture & Workshop, Vienna University of Technology, Vienna, Austria (2011)
 - *Cooler Einzeller: Wie kommt Neues in die Technik? Innovation und Kreativität aus der Natur*
VHS Meidling, University meets Public, Vienna, Austria (2010)
 - *Der Dschungel als Forschungslabor*
24. Wiener Kindervorlesung, zoom Kindermuseum, Vienna, Austria (2010)
 - *Nanomedizin und Biomimetik: Das spannende Aufeinandertreffen der Lebenswissenschaften mit den Ingenieurwissenschaften und der Physik*
PGWkRG 7 Mater Salvatoris, Vienna, Austria (2009)
 - *Bionanotechnologie aus der Natur. Intelligente Materialien, Nanoroboter und vieles mehr!*
VHS Favoriten, University meets Public, Vienna, Austria (2008)
 - *Wie bringt die Nanotechnologie Farben zum leuchten?*
Lange Nacht der Forschung, Wiener Neustadt, Austria (2008)
 - *Stukturfarben in der Biologie: Inspirationsquelle für neue technische Entwicklungen*
Erster GenderWorkshop, FH Technikum Wien, Vienna, Austria (2008)
 - *Schmetterlingsflügel, Pfauenfedern und Stoff, der die Farbe ändert, wenn Ihr*

- ihn anhaucht - die neue Welt der Nanotechnologie*
KinderUniTechnik, University of Technology Vienna, Vienna, Austria (2008)
- *Intelligente Materialien, Nanoroboter und vieles mehr! Chancen und Risiken aktueller Technologien*
Evangelische Hochschulgemeinde, Vienna, Austria (2008)
- *Nanoroboter*
Tramway #2, Woche der freien Bildung, Vienna, Austria (2008)
- *Bionanotechnologie aus der Natur. Intelligente Materialien, Nanoroboter und vieles mehr!*
VHS Meidling, UMP - University meets Public, Vienna, Austria (2008)
- *Schmetterlingsflügel, Pfauenfedern und Stoff, der die Farbe ändert, wenn Ihr ihn anhaucht - die neue Welt der Nanotechnologie*
Eingeladener Vortrag, "Forschung macht Schule", Museumsquartier, Vienna, Austria (2008)
- *Licht+Licht=Dunkelheit?*
Yo!Tech, Aula der Wissenschaften, Vienna, Austria (2007)
- *Bionanotechnologie aus der Natur. Intelligente Materialien, Nanoroboter und vieles mehr!*
Metalab, Vienna, Austria (2007)
- *Gibt es Ausserirdische und kann die Nanotechnologie uns helfen, damit wir nie mehr Geschirr abwaschen müssen?*
Interview, Rudi!Radiohund, Palais Auersperg, Vienna, Austria (2007)
- *Nanotechnologie für Körperbehinderte*
Schulzentrum Ungargasse, Vienna, Austria (2007)
- *Bionanotechnologie: Intelligente Materialien, Nanoroboter und vieles mehr!*
VHS Meidling, University meets Public, Vienna, Austria (2007)
- *Von Metallen und Edelsteinen. Physik und Chemie - anschaulich präsentiert*
University of Technology Vienna, Vienna, Austria (2006)
- *Von Metallen und Edelsteinen - und Schiffen, die auf unsichtbarem Gas dahingleiten. Wunderbare Physik - anschaulich präsentiert*
Yo!Einstein, University of Technology Vienna, Vienna, Austria (2006)
- *Nanoroboter*
Tramway #2, Woche der freien Bildung, Vienna, Austria (2006)
- *Bionanotechnologie aus der Natur. Intelligente Materialien, Nanoroboter und vieles mehr!*
VHS Ottakring, University meets Public, Vienna, Austria (2006)
- *Wissenschaftliche Lebensberatung: Was Sie immer schon über Naturwissenschaften wissen wollten." (Scientific life coaching: Everything you ever wanted to know about science.)*
Lange Nacht der Forschung, Vienna, Austria (2005)
- *Algen machen Glas und Bakterien erzeugen Magnete. Was die Materialwissenschaft von der Natur alles lernen kann*
VHS Simmering, University meets Public, Vienna, Austria (2003)
- *Algen machen Glas und Bakterien erzeugen Magnete. Was die Materialwissen-*

schaft von der Natur alles lernen kann
VHS Liesing, University meets Public, Vienna, Austria (2003)

CD's

- Was die Welt zusammenhält - Annäherung an die Weltsicht der Physik (with Pietschmann H.), 2 CDs, ORF (2010)

Television

- *Science Talk* (with Barbara Stöckl)
ORF III, 30.09.2015
- *Kinderuni* (with Kupfer A., Gebeshuber I.C. et al.)
Film by WAG Wohnungsanlagen on the Kinderuni Steyr 2013, featuring our educational biomimetic simulated jungle walks in the "Steyrer Au" (2013)
- *Live Interview by Mrs. Jessy Chahal (Assistant Producer/Presenter) on Ille's 2012 TEDxKL Talk "What is a physicist doing in the jungle? Biomimetics of the rainforest"*
Malaysian National News Agency Bernama TV, The Breakfast Club (2012)
- *Bernd Hupfauf und 1 Ei gegen die Gravitation* (with B. Hupfauf)
Austrian Television ORF 1, Science Magazin „Newton" (2007)
- *Die Physik der Wasserrutsche* (Physics of the waterslide)
Austrian Television ORF 1, Science Magazin „Newton" (2007)

Science Outreach Writings

- "A requiem for future's past" In: Visions of the future, Visions of the Future, Jason D. Batt (Ed.), Lifeboat Foundation, CA, USA, in press
- "Prelude" In: Design for Sustainable Well-being and Empowerment - Selected Papers (2015), M. Mani and P. Kandachar (Eds.), IISc-TU Delft joint publication, Open Access, 2015
- "Chicken with feathers!" In: The YES-Book, J. Cooper (Ed.), Exult Road Publishing, p. 133-136, ISBN 978-0-9905317-0-8, 2014
- "Schreibend in Malaysia" In: "Autoren packen aus: Über 550 Tipps für die Schreiberei", A. Arneitz (Ed.), Books on Demand, p. 49-51, ISBN 978-3-7322-5547-4, 2014
- "What is the architect doing in the jungle?" In: "What is the architect doing in the jungle? Biornametics". B. Imhof and P. Gruber (Eds.), Edition Angewandte, Springer Wien New York, p. 68-69, ISBN 978-3-7091-1528-2, 2013
- "Warum leuchten Glühwürmchen?" In: "10 Jahre Kinderuni Steyr". A. Kupfer et al. (Eds.), p. 30, 2013

Public Science Articles

- *Bird Biomimetics*

- Pencinta Alam, Newsletter of the Malaysian Nature Society 12/2014, 4.
- *Biomimetic design for well being and empowerment*
News of the International Society of Bionic Engineering 06/2014
- *Reflections of Dr. Ille. C. Gebeshuber, Professor, Vienna University of Technology & Universiti Kebangsaan Malaysia on ICCICCT-2014*
NIU Electronics and Instrumentation Engineering 2014
- *Nanotechnology of the cow*
VetLife Malaysia Magazine 01/2014, 8-12.
- *Ekspedisi ke Taman Negara Sungai Relau, Merapoh, Pahang* (with Diah S.Z.M. and Karman S.)
Pencinta Alam, Newsletter of the Malaysian Nature Society 05/2013, 1-2.
- *Populär dazwischen*
Fiber 16/2010, 33.
- *Es fliegt. Es fliegt*
Vienna Zoom museum for children 2009
- *High-Tech-Farben aus der Natur*
naklar.at. Sapere aude! Online platform for active minds. Invited Article (2009)
- *Stukturfarben in der Biologie: Inspirationsquelle für neue technische Entwicklungen*, Plus Lucis 1-2/2008, 44-47. Invited Article
- *Wissensdurst – Forschungsrausch*
Fiber 13/2008, 45-47.
- *Der Zeitbegriff in der Physik - Eine fundierte Einführung in die Zeit.*
AUF 138, 12/2007, 27-30. Invited Article

Group Moderations

- Co-Moderator of the Group “Ingenieurspädagogik” on XING (from 2009)
- Co-Administrator of the Group “MEMS & Nanotechnology Malaysia”, on facebook (from Dec. 2010)

Movies

- Ille C. Gebeshuber et al. (2013).
Biomimicry in Rainforests, Whirinaki and Auckland, New Zealand, April 2013.
DVD available from <http://www.kaitiakitanga.net/biomimicry/IlleGebeshuber/>
- Ille C. Gebeshuber: TEDxKL Talk “What is a physicist doing in the jungle? Biomimetics of the rainforest” (2012).
<http://www.tinyurl.com/illeted>
- Interview by Pasquale Policastro: On Science (2010).
<http://tv.pus.univ.szczecin.pl/content/wywiad-16>
- Ille C. Gebeshuber: *Kieselalgen und Ferrarimotoren* (2010)
Movie of my presentation at the European Forum Alpach 2010.
<http://etalks.tv/blog/2010/01/26/kieselalgen-und-ferrarimotoren/>

- Amelie Cserer: *Lust und Freude an der TU Wien* (2009)
presented to the public in February 2009
- Erika Müller: *Femtech - Expertin: Ille Gebeshuber* (2008)
<http://www.youtube.com/watch?v=QK7GQroWEKk>
- TU TV: *Was bringt die TU fürs Leben?* (2008)
http://www.tuwien.ac.at/flash_video/081113htufx/
- Ille C. Gebeshuber: *Interview on biomimetics.* (2007)
Interview after my presentation at the European Forum Alpbach 2007.
DVD European Forum Alpbach 2007
- Ille C. Gebeshuber: *Academic Speech on behalf of all PhD students* (1999)
http://www.nornje.com/nornje/Ille_Trailer.html,
<http://www.youtube.com/watch?v=vtOjXxbyIIQ&hd>

Radio Broadcastings

- “*Biomimetik*”
Interview by Isabella Ferenci
Ö1, Wissen aktuell, 30.01.2015
- The Bigger Picture, BFM 89.9, Malaysian Radio Broadcasting Company (2012 & 2013 & 2014)
 - *Structural colors in the focus of nano-engineering and the arts: A survey of state-of-the-art developments*
Interview by Mrs. Meera Sivasothy
 - *Addressing Humankind’s Current Global Challenges*
Interview by Mrs. Juliet Jacobs
 - *Nanoscale functionalities in transparent animals inspiring novel approaches in architecture*
Interview by Mrs. Meera Sivasothy (with Alys Crawford and Nicole Hirhager)
 - *Tribology for Life*
Interview by Mrs. Meera Sivasothy
 - *Gifted child to gifted adult*
Interview by Mrs. Meera Sivasothy
- “*Warum wird ein Schmetterlingsflügel nicht schmutzig?*”
Interview by kids from Kinderuni Steyr 2013 & Renate Pliem
ÖE1 Kinderuni (2014)
- “*What are children doing with a physicist in the jungle?*”
Live interview by Stuart Freeman
FM4, Austrian Radio (2013)
- “*On bees and how they inspire novel technologies*”
Interview by Emmet Brady, Insect Network, Bee-a-Thon 2013
KDRT 95.7FM Davis, California, USA (2013)
- *On biomimetics and the inspiration I get from the rainforest, advertising my visit to New Zealand in April 2013* (with Richard Louv and Peter Goldsbury)
Ideas with Jeremy Rose, Radio New Zealand (2013)

- Live Interview
Capital FM, Malaysian Radio Broadcasting Company (2012)
- Ille im Dschungel (Ille in the jungle)
Rudi!Radiohund, ORF Ö1² (2010)
 - o Part 1: “*Was eine CD und ein Farn gemeinsam haben*” (On the similarities between a CD and a fern)
 - o Part 2: “*Keine Angst vor Würgeschlangen*” (Do not be afraid of snakes)
 - o Part 3: “*Diamanten der Nacht*” (Diamonds in the night)
 - o Part 4: “*Der spezielle Schmetterlingsflügel*” (A special butterfly wing)
 - o Part 5: “*Kopfüber spazieren wie ein Gecko*” (Walking upside down like the gecko)
 - o Part 6: “*Forschen in der Wildnis*” (Research in the jungle)
- Interviews for Digital Leben “80+1 Weltreise”, ORF Ö1 (2009)
 - o Episode 25. Biodiversity I
 - o Episode 26. Biodiversity II
 - o Episode 46. Exploration
- Was die Welt zusammenhält - Annäherung an die Weltsicht der Physik (with Pietschmann H.), ORF Ö1 (2009):
 - o “*Von der Natur lernen*” (Learning from Nature).
 - o “*Was ist eine Maschine?*” (What is a machine?)
 - o “*Zeit und Raum*” (Time and Space)
 - o “*Die Welt ist ohne Widerspruch nicht zu verstehen*” (The world is not to be understood without contradiction)
 - o “*Aufklärung und Emotion*” (Enlightenment and Emotion)
 - o “*Geckos und ein Superkleber*” (Geckoes and a Superglue)
 - o “*Die Forschungsdebatte als Symbol für eine strauchelnde Wissensgesellschaft*” (The Research Debate as a Symbol for a Stumbling Knowledge Society)
- “*Nanotechnologie und Tribologie*” (Nanotechnology and Tribology) (with Franek F. and Jech M.)
Dimensionen - Die Welt der Wissenschaft, ORF Ö1 (2007)
- „*Die Physik der Wasserrutsche*” (The physics of the waterslide)
Rudi!Radiohund, ORF Ö1 (2007)
- „*Die Physikerin*” (The physicist)
Rudi!Radiohund, ORF Ö1 (2007)
- „*Astrophysik und Nanotechnologie*” (Astrophysics and Nanotechnology) (with Oberhammer H.)
Von Tag zu Tag mit Rainer Rosenberg, ORF Ö1 (2006)
- Wissen aktuell: 60 Sekunden für die Physik, ORF Ö1 (2005)
 - o „*Warum auf der Nordhalbkugel die Winter kürzer und milder sind als auf*

² Austrian radio broadcasting agency

der Südhalbkugel” (Why the winters on the norther hemisphere are shorter and milder than on the southern hemisphere)

- „*Wie die Eier zu ihrer Form kommen*” (Why eggs are eggshaped)
- „*Warum feuchte Steine dunkler sind als trockene*” (Why wet stones are darker than dry ones)

Exhibitions and Public Readings

- Re_Framing Gender
Contribution to the Foto Exhibition, 2nd Annual Meeting of the Austrian Society for Gender Research, Universität Graz, Austria (2014)
- Tribology and Art (Zobl S. - presentation & concept, Gebeshuber I.C. - concept)
Art Installation @ Workshop, Austrian Center of Competence for Tribology AC2T research Ges.m.b.H., Wiener Neustadt, Austria (2014)
- Autoren packen aus: Über 550 Tipps für die Schreiberei (Arneitz A., Gebeshuber I.C. & others)
Public reading, Galerie Unkel, Postgasse, Villach, Austria (2014)
- Bionic Art: Struktur.macht.Farbe (Zobl S., Schwerte T., Marx W., Gebeshuber I.C. and Schreiner M.)
Wiener Wunderkammer 2014, Technische Universität Wien, Austria (2014)
- Out of the box. 10 Questions on Artistic Research.
MAK, Museum für Angewandte Kunst, Wien, Vienna, Austria (2014)
- Heaven on Earth (Gebeshuber I.C.)
Kuala Lumpur Photo Fest, Kuala Lumpur, Malaysia (2013)
- Bionic.Art - Structure.makes.Colors (Zobl S. - presentation & concept), Gebeshuber I.C., Marx W., Schwerte T. and Schreiner M. - concept)
documenta(13), “Winning hearts and minds”, Critical Art Ensemble, Kassel, Germany (2012)
- Structural colors, dinosaur biomimetics and nanotechnology - basic physics explained in a fun way (Gebeshuber I.C. - concept, Karman S.B. and Diah S.M. - presentation)
Nanofest, Pusat Sains Negara (PSN), National Science Center, Kuala Lumpur, Malaysia (2011)
- Prototypical spatial installation. BIORNAMETICS - Architecture Defined By Natural Patterns
SLIVER Gallery, University of Applied Arts, Vienna, Austria (2011)
- Chemical Elements Exhibition (all from H to U, without Tc) (with J. Bauer)
University of Technology, Vienna, Austria (2007)
- Chemical Elements Exhibition (all from H to U, without Tc) (with J. Bauer)
University of Technology, Vienna, Austria (2006)
- Chemical Elements Exhibition (all from H to U, without Tc) (with J. Bauer)
University of Technology, Vienna, Austria (2005)

Panel Discussions

- Where do great ideas come from
2nd MyWIN Innovation Forum, MyWIN Academy, INTAN, Bukit Kiara, Malaysia (2014)
- Stakeholder Brainstorm and Valorisation
Design for sustainable well-being & empowerment, Indian Institute of Science IISc, Bangalore, India (2014)
- Learning from Nature for successfully addressing global challenges for human-kind
EU-ASEAN Science Technology and Innovation STI Days, Bangkok, Thailand (2014)
- Ecotribology
5th World Tribology Congress WTC2013, Torino, Italy (2013)
- Biomimetics
Public / Youth Forum, Engineering Department, University of Auckland, NZ (2013)
- Nanotechnology: Engineering for a better future
4th World Islamic Economic Forum Global Discourse on Nanotechnology, KLCC Convention Centre, Malaysia (2011)
- BIORNAMETICS - Architecture Defined by Natural Patterns
SLIVER Gallery Series, University of Applied Arts, Vienna (2011)
- Should Nanotech be part of our School Curriculum?"
HOTSCIENCE Forum, Petronas Twin Towers, Kuala Lumpur, Malaysia (2010)
- Das Gottes-Teilchen. Wenn die Naturwissenschaft die Antworten liefert, brauchen wir dann noch Religion?
Science Lounge, Museumsquartier, Vienna, Austria (2008)
- Gegen Vorurteile
Dr. Franz Slawik-Symposium, Schwechat, Austria (2008)
- Was bringt die TU fürs Leben?
HTU, Vienna University of Technology, Vienna, Austria (2008)
- Frauen, erobert Technik!
Gender Workshop'08, FH Technikum Wien, Vienna, Austria (2008)
- Nanotechnologie und Tribologie - eine neue Dimension
Tribologie Fachtagung 2008, Göttingen, Germany (2008)
- Frauen in die Technik
University of Technology Vienna, Vienna, Austria (2003)

Press Conferences

10 Jahre University meets Public
Urania, Vienna, Austria (2008)

Lunch Permata Pintar Project for Gifted Children
Universiti Kebangsaan Malaysia (2009)

Media Coverage of Research and Professional Activities

Books

- Landskap Malaysia (2014) “Pusaka Akar (Ancestral Roots)”
Coffee Table Book, Chapter “How could a green economy work” p. 275, 314 pp.,
The Untamed & Unmanicured Collection, Kuala Lumpur, Malaysia.
- Zobl S. (2014) “Bionic Art: Struktur.macht.Farbe”
Ausstellungskatalog Wiener Wunderkammer 2014, Technische Universität Wien,
p. 20-21.
- Dombois F., Klein J., Bast G. and Peters S. (2014) “Out of the Box. 10 Fragen an
künstlerische Forschung “
Universität für angewandte Kunst Wien (Ed.), Die Angewandte, Wien, Vienna,
Austria. ISBN-10: 3200033827, ISBN-13: 978-3200033825.
- Majlis B.Y. et al. (2013) “Nanotechnology & Advanced Materials Niche - Re-
nowned Leader in Nanotechnology and Advanced Material Research”
256 p., ISBN 978-967-5878-24-4, Publisher: Penerbit UKM, p. 29, 33 and 35
- Pauschitz A. and Franek F. (2012) “Tribologie im Aufwind”
72 p., ISBN 978-3-901657-45-0, Publisher: Oesterreichische Tribologische Ge-
sellschaft, p. 30, 40 and 59
- Pauli G. (2010) “The Blue Economy - 10 Years, 100 Innovations, 100 Million
Jobs. Report to the Club of Rome”
336 p., ISBN-10: 0912111909, ISBN-13: 978-0912111902, Publisher: Paradigm
Pubns, Publication date: 30/06/2010. Also available in Chinese (2010), Dutch
(2012) and Japanese (2012). Diatom Tribology, the field that we (Gebeshuber &
Drack) coined in 2004, is amongst the top 100 innovations that build the founda-
tion of this book.

Radio Broadcastings

- Imhof B. (2011) “BIORNAMETICS - Architektur und Muster aus der Natur”, Die
schoenen ArchitektInnen, Radio Orange
- Imhoff B. and Schmitzer U. (2010) “Biornamentics - PEEK FWF Project in Art-
based Research”, Dimensionen - Die Welt der Wissenschaft, ORF Ö1

Magazines

- Leading Ladies Luncheon
Expatriate Lifestyle 04/2015, p. 137
- Neujahrsempfang 2015
KL Post 02/2015, p. 33
- Wir sind für Sie da!
KL Post 09/2014, p. 32-33

- Jennifer Jacobs: Natural Solutions to Global Problems
TheEdge Malaysia, September 8, 2014,
- Eindrücke von der 10. Jahreshauptversammlung
KL Post 04/2014, p. 29
- Annemarie Herzog: Das Licht und seine Schatten (Editorial)
Lebensart - Leben mit Weitblick 7/2013, p. 3
- Anita Arneitz: Die Natur als Ideengeber
Lebensart - Leben mit Weitblick 7/2013, p. 8-12
- Bilder von der Jahreshauptversammlung 2013
KL Post 04/2013, p. 31
- Leopold Lukschanderl: Bionik - Keine Blaupausen für die Technik
Umweltschutz 05/2012, 40-42
- Leopold Lukschanderl: Forschung: Mutter Natur als Vorbild
Austria Innovativ 04/2012, 44-48
- Ashleigh Seow: Water is life: LifeStraw
The Naturalist 65(2), 12/2011, 40-45
- Irmgard Helperstorfer and Veronika Krenn: Ein virtuelles Heim für global Gesinnte: www.austrians.org
Auslandsoesterreicher-Journal Rotweissrot, 4/2011, 12-15
- (TA): Der Tag 2, "Qualitätskontrolle"
Der Moment 2011, 6
- N. Mun Fey: At Prof. Ille's
For Connoisseurs Sept. 2011, Issue #05, 32-33
- N. Mun Fey: An Interview with Prof. Dr. Ille C. Gebeshuber
For Connoisseurs Sept. 2011, Issue #05, 34
- Margarete Endl: Schulbank fuer reich und mächtig
Elite 3/2011, 58-63
- Anita Arneitz: Natur bietet für jedes Problem eine Lösung. Was wir von den kleinsten einzelligen Wesen lernen können, erklärt Ille Gebeshuber (Nature offers a solution to every problem. Ille Gebeshuber explains what we can learn from the smallest single celled organisms)
Kärntner Wirtschaft 66(6)/2011, 3
- Herausforderung mit Bionik begegnen (Meet challenges with biomimetics)
Kärntner Wirtschaft 65(42)/2010, 11
- Peter Lexe: Bionik kann die Welt verändern (Biomimetics can change the world)
Draustädter 19/2010, 8
- NÖ-Technologie auf Erfolgskurs
News Niederösterreich Einleger 35/2010, 8-9
- Weltweit anerkannt. Ille C. Gebeshuber. Porträt der Forscherin
News Niederösterreich Einleger 35/2010, 9
- Georg Sachs: Die Kieselalge und der Ferrari-Motor: Biomimetik für technische und soziale Systeme (The diatom and the Ferrari motor: Biomimetics for technical and social systems)

- Chemiereport 05(2010), 25-26
- Jennifer Bawitsch and Teresa Stemeseder: Glitzernde Spinnenaugen - Expedition zum Bukit Fraser (Shiny spider eyes: Expedition to Bukit Fraser)
KL Post 04/2010, 4-7
 - Neujahrsempfang 2010
KL Post 03/2010, p. 27
 - CD-Tipp: Was die Welt zusammenhält (CD tip: What keeps the world together)
TU frei.haus 13/2010, 7
 - Wissenschaft zum Angreifen (Science to touch)
VOR Magazin 09/2009, 66
 - Julia Kospach: Ein Lehrmeister namens Wald (A teacher called forest). 07/08
July/August 2009, 80-85
 - Rainer Rosenberg: "Was die Welt zusammenhält - Dialogische Annäherungen an die Weltansicht der Physik
Gehört - Das Ö1 Club-Magazin, Nr. 163, 07/2009, 4
 - Sheila Nathan and Mohd Firdaus Raih: "Meeting Report: 34th Annual Conference of the Malaysian Society for Biochemistry and Molecular Biology & 3rd Asean Biochemistry Conference
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