

Ille C. Gebeshuber BIOGRAPHY

Prof. Ille C. Gebeshuber is a University Professor of Physics from Austria, Europe. She is expert in Nanotechnology, Biomimetics and Tribology. She was born in 1969 in the small city Kindberg. As a child she discovered that - a natural lefthander - she can write in mirror. She uses this ability to stimulate the right side of her brain and thereby her creativity and cross-border thinking. This has had major influence on her scholarly development and achievements - unlike most other physicists and engineers her approach to science is wide and holistic, and inherently trans- and interdisciplinary, bridging over to biology, the arts and the social sciences.

Since 2009 she has been at the Institute of Microengineering and Nanoelectronics at Universiti Kebangsaan Malaysia. Her permanent position is at the Institute of Applied Physics at the Vienna University of Technology. Prof. Ille is associate editor of the SAGE Journal of Mechanical Engineering Science, editorial board member of various scientific journals, author of two books on biomimetics and nanotechnology and editor of a book on biomimetics by Springer. She is scientific advisory board member for the Lifeboat Foundation, a US American think tank safeguarding humanity.

Prof. Ille C. Gebeshuber serves on various international strategy boards and expert panels. She is reviewer and advisor for agencies, universities, research institutions and public bodies. Prof. Ille is doing extensive public science outreach work and her professional activities are widely covered in the media. She loves to go on rainforest expeditions with her students, who come from different cultures and different fields (Europe & Asia, physics, engineering, biology, veterinary medicine, applied arts, fine arts). Her research interests are located at the interface of biology, engineering and the arts, systems thinking and nanotechnology and aim at addressing global challenges for humankind.

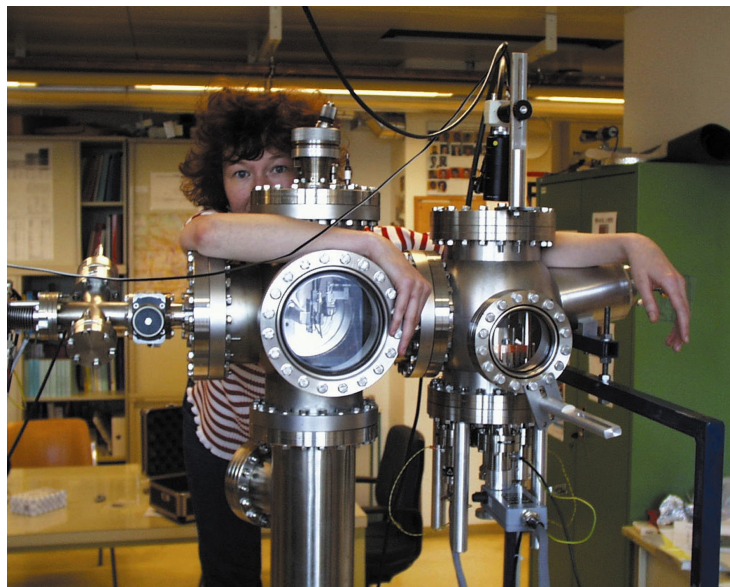


Prof. Ille C. Gebeshuber LECTURE: BIOINSPIRED DESIGN

The lecture will introduce biomimetic nanotechnology, a powerful emerging, potentially disruptive way of doing science and engineering. On rainforest expeditions with her PhD students from Europe and Malaysia from fields such as economics,

Ille C. Gebeshuber, September 2013. Abstract and Biography for an Invited Lecture at the Asia Nanoforum 2013, Surya University, Jakarta, Indonesia.

engineering, biology, the veterinary sciences, physics and the applied as well as the fine arts and collaborators from around the globe Prof. Ille, whose work is based on biomimetics and a deep understanding of trends and developments, has established an interdisciplinary sound basis to unveil the unique wisdom and potential of the largest sustainable system we know, living nature, and what we can learn from it regarding successful addressing of major global challenges. Such challenges are climate change and sustainable development, major changes in biodiversity, supply with clean water for everybody and health problems due to resistant microorganisms. They are interconnected and interdependent, and a complex system that needs to be addressed by complex minds – for example with good, bioinspired design. The talk will furthermore deal with necessary new ways of teaching, of disseminating and accessing knowledge, of doing engineering and shaping our approaches towards a better, healthy and good way of living, that would not compromise future generations.



See her CV page for downloads of her academic (papers, book chapters, etc.) and science outreach (TV, radio, magazines, etc.) work:

http://www.iap.tuwien.ac.at/~gebeshuber/CV_ICG.HTML

See <http://www.tinyurl.com/illeted> for her TEDxKL Talk “What is a physicist doing in the jungle? Biomimetics of the rainforest.”