

CURRICULUM VITAE OF MARCUS TEXTOR

Name: Hans Marcus TEXTOR
Present Position: Professor emeritus of ETH Zurich, Department of Materials
ETH Address: CH-8093 Zurich, Switzerland



EDUCATION

1966 – 1972 University of Zurich, Chemistry
1972 Ph.D. (Dr. phil. II), University of Zurich, Chemistry Department

POSTDOCTORAL TRAINING

1973 - 1974 Assistant and Lecturer, Univ. of Zurich, Chemistry Department
1975 - 1976 Postdoctoral Fellowship (Royal Society): University of Sussex, Molecular Sciences, Brighton, UK (surface science, catalysis)
1976 – 1977 Assistant and Lecturer at Univ. of Zürich, Chemistry Department

INDUSTRIAL EXPERIENCE

1978 – 1994 Alusuisse Technology Center, Neuhausen am Rheinfall, Switzerland:
Responsible for Surface Technology and Material Development, Head of Materials Department (1993 – 94)

ACADEMIC EXPERIENCE

1994 – 2011 Federal Institute of Technology (ETH) Zurich, Department of Materials, Laboratory for Surface Science and Technology (LSST)
Head of the *BioInterfaceGroup* (since 1996)
Professor (since 2002)
2006 - 2009 Director of the Competence Center for Materials Research and Technology (CCMX), Unit “Materials for the Life Sciences”.

RESEARCH FIELDS OF THE TEXTOR GROUP

- 1) Synthesis and application to surfaces of multifunctional molecules with an emphasis on self-organized systems. Characterization of the surface modification and properties both with *in situ* and *ex situ* techniques. Fundamental studies related to interfacial chemical properties and biological interactiveness.
- 2) *In situ* monitoring of biologically relevant processes at material interfaces (protein, cell and bacteria-surface interactions) using dedicated, partly in house developed techniques.
- 3) Development of surfaces designed on biological principles for the field of biomaterials, implants and medical devices, biosensors and drug delivery carriers.
- 4) Micro- and nanofabricated surfaces: development of novel surface techniques to chemically pattern surfaces and application of microfabrication and replication techniques for hosting single and multiple cells in designed microwells. Application of 3D cell culture systems to study drug response to cancer cells in controlled microenvironments with tuneable cell cluster size, material stiffness and extracellular matrix interactions.
- 5) Surface modification of functionalized micro- and nanoparticle and their controlled assembly at surfaces as a platform for application in the field of biosensors, medical imaging and targeted drug delivery area

SUPERVISION OF STUDENTS

- Supervision of **141 Master, Diploma and Semester Theses** at ETHZ since 1995.
- Supervision of **42 Ph.D. Theses** between 1995 and 2011.

EDITORIAL ACTIVITIES

Editor of Book «*Intelligent Surfaces in Biotechnology: Scientific and Engineering Concepts, Enabling Technologies, and Translation to Bio-Oriented Applications*», Wiley&Sons, 2012

Biomaterials, International Editorial Board, Elsevier (until 2004)

BIOMaterialien, Editorial Board, Merkur Verlag, München, D

European Cells & Materials (ECM), International Editorial Board

Editor of book "*Titanium in Medicine*", Springer Verlag, Berlin, Heidelberg, New York (2001)

Coeditor *Biointerphases*

ADVISORY BOARD MEMBER

Advisory Board, University of Fribourg/Adolphe Merkle Institute (AMI)

Wissenschaftlicher Rat, Dr. h.c. Robert Mathys Stiftung, Bettlach, Switzerland

Scientific Advisory Board, Ian Wark Research Institute, University of South Australia, Adelaide

Scientific Advisory Board, Leibniz-Institut für Polymerforschung Dresden, Germany

Advisory Board, Zurich University for Applied Sciences, Wädenswil, Switzerland

Research Commission, Empa, Switzerland

ORGANIZATION COMMITTEE MEMBER OF CONFERENCES (2005-2010)

Sino-Swiss SSSTC Stepping Stone Symposium, ETH Zurich, 2012

Third International NanoBio Conference, August 2010, ETH Zurich

The 3rd International Workshop on Approaches to Single-Cell Analysis, ETH Zurich, September, 2008, ETH Zurich (Chair)

2nd Gordon Research Conference on "Biointerface Science", Aussois, France, September 2008 (Chair)

The 2nd International Workshop on Approaches to Single-Cell Analysis, September 2007, Tokyo, Japan (Co-Chair)

Swiss-Japan Workshop on BioNanoTechnology, October 2007, Tokyo (Co-Chair)

BIOSURF I – VII (1997 – 2007), Conference on Surfaces in Biotechnology (Series of Conferences at ETHZ / EPFL every 1-2 years), Switzerland (Chair)

AVS Annual Meetings, US (Program Committee)

EURESCO Conference on "Biological Surfaces and Interfaces", San Feliu de Guixol, Spain July 2007 (Chair)

1st Gordon Research Conference on "Biointerface Science", Les Diablerets, Switzerland, 2006 (Vice-chair)

ESF SONS Annual Conference, Pisa, Italy (2006, Program Chair)

EURESCO Conference on Biological Surfaces and Interfaces, San Feliu de Guixols, Spain (2005) (Vice-chair)

PRIZES

2006: AVS Society (US): Prize on the Biomaterial Interface Division (BID)

2010: ETH Zurich Staudinger-Durrer Medal (Switzerland)

2012: Surfaces in Biomaterials Foundation (US), "Excellence in Surface Science"

LIST OF PUBLICATIONS

> 260 peer-reviewed journal papers (years 1995 – 2012), 2 books and 12 book chapters and monographs. Total numbers of publications: ca. 275.

>8000 citations. h-index: 54