Programme of the Symposium

08.15 - 08.45	Registration
09.10 - 09.15	Welcome notes (Dr. B. Trautwein)
09.15 - 09.30	Opening speech (Prof. Dr. Löhe)
09.30 - 10.25	Poster session 1
10.30 - 11.40	Talk session 1
11.30 - 11.55	Coffee break
11.55 - 13.05	Talk session 2
12.55 - 13.40	Lunch
13.40 - 14.50	Talk session 3
14.55 - 15.45	Poster session 2
15.50 - 17.00	Talk session 4
17.05 - 17.55	Poster session 4
17.55	Symposium get-together and award ceremony

A detailed programme of each session follows in the next pages.

Group 1

9.30 - 10.25

Science Expert:	Prof. Dr. Uli Lemmer (Light Technology Institute)
09.30 - 09.36	P1 Mr. Alaa Ismaeel Institute of Applied Informatics and Formal Description Methods "An Improved Barycenter Algorithm for Drawing Hierarchical Graph with Minimized Crossings."
09.36 - 09.42	P2 Ms. Jingtai Liu Institute for Architectural Design, Art and Theory "The Concept of the Nature in Traditional Chinese Architecture as Equipments for Sustainable Design"
09.42 - 09.48	P3 Mr. Simon Widmaier Institute of Nanotechnology "Effect of Implicit Solvation on Biophysical Based Docking Simulations."
09.48 - 09.54	P4 Mr. Johannes Max Meckbach Institute of Micro- und Nanoelectronic Systems "Optimization of Nb/Al-AlOx/Nb Technology regarding High-Quality short and long Josephson Junctions."
09.54 - 10.00	P5 Ms. Constanze Seidel Institute of Applied Biosciences, Dept. of Microbiology Title not confirmed
10.00 - 10.06	P6 Mr. Andreas Christian Braun Institute of Photogrammetry and Remote Sensing "Relative vs. Absolute Classification of Hyperspectral Remote Sensing Data using Support Vector Machines."
10.06 - 10.25	FEEDBACK to P1 - P6

Group 2

9.30 - 10.25

Science Expert:	Prof. Dr. Hermann Nirschl (Inst. of Mechanical Process Engineering & Mechanics)
09.30 - 09.36	P7 Mr. Dachao Wang Institute of Nanotechnology "Solid state battery"
09.36 - 09.42	P8 Ms. Lea Burger Institute for Chemical Technology and Polymer Chemistry "Reaction mechanisMs. for CO oxidation over platinum coated catalysts."
09.42 - 09.48	P9 Ms. Devipriya Rajkumar Institute of Toxicology and Genetics "Modification Screening of Cell Signaling Components Using Saw-Biosensors."
09.48 – 09.54	P10 Ms. Kawther Abo Alam Institute of Biomedical Engineering "Robust Estimation Approach for a Compact Hemoglobin Components Analyzer Based on Fuzzy Expert Systems."
9.54 – 10.00	P11 Ms. Rebecca Klages Institute of Decision Theory and Management Science "Community Structure Detection and Modularity Properties."
10.00 - 10.06	P12 Mr. Jorge Perez Manes Institute for Neutron Physics and Reactor Technology "Computational Fluid Dynamics application in nuclear safety for boiling water reactors."
10.06 - 10.25	FEEDBACK to P7 - P12

Lecture Hall 1

10.30 - 11.40

Chairman: Dr. Steffen Scholpp

(Institute for Toxicology and Genetics)

Science Expert: Prof. Dr. Uli Lemmer

(Light Technology Institute)

Rhetoric Expert: Mrs. Katrin Klink, M.A.

(Personalmanagement)

10.30 – 10.45 T1 Mr. Faith Cetinel

Insitute for Materials Research III

"Influence of material and process-related factors on the healing of surface defects of zirconia micro parts

during thermal debinding."

10.45 – 11.00 **T2 Ms. Melanie Kappler**

Institute of Geography and Geoecology

"The Lifestyles of the Generation 50plus and the Effects

on German Cities"

11.00 - 11.15 T3 Mr. Gernot Hickethier

Institute for Technology and Management in Construction

"Lean Planning Processes in Civil Engineering through

Structural Complexity Management"

11.15 – 11.30 **T4 Ms. Petra Probst**

Institute of Micro- und Nanoelectronic SysteMs.

"Picosecond time resolution of THz pulses by YBCO Hot-

Electron Bolometers"

11.30 – 11.40 **FEEDBACK to T1 – T4**

Lecture Hall 2

10.30 - 11.40

Chairman: Dr. Bastian Breustedt

(Institute for Radiation Research)

Science Expert: Prof. Dr. Caroline Kramer

(Institute of Geography and Geoecology)

Rhetoric Expert: Mrs. Martina Nöth

(Personalmanagement)

10.30 - 10.45 **T5 Mr. Julian Skrotzki**

Institute of Meteorology and Climate Research

"High Accuracy Water Measurements based on Tunable Diode Laser Absorption Spectroscopy at the

Cloud Chamber AIDA."

10.45 - 11.00 **T6 Ms. Bianca Cornehl**

Institute of Mechanical Process Engineering and Mechanics

"Downscaling Cake-Filtration - An Investigation of a

Separation Process for Crystallized Proteins"

11.00 – 11.15 **T7 Mr. Oliver Dahlev**

Institute of Toxicology and Genetics

"A Trip(6) to Skeletal Muscle Differentiation"

11.15 - 11.30 **T8 Ms. Denise Chan**

Institute for Technological Chemistry and Polymer Chemistry

"Mechanism Development for the NO Oxidation on

Platinum Catalysts."

11.30 – 11.40 **FEEDBACK to T5 – T8**

Lecture Hall 1

11.55 - 13.05

Chairman: Dr. Dominic von Terzi

(Institute of Thermal Turbomachines)

Science Expert: Prof. Dr. Andrew Cato

(Institute for Toxicology and Genetics)

Rhetoric Expert: Mrs. Katrin Klink, M.A.

(Personalmanagement)

11.55 – 12.10 **T9 Mr. Clemens Mueller**

Institute for Theory of Condensed Matter

"Dynamics of strongly coupled qubit-fluctuator

systems."

12.10 – 12.25 **T10** Mr. Christoph Haas

Institute for Nuclear and Energy Technologies

"Flow instability and critical heat flux for flow boiling

of water in a vertical annulus at low pressure."

12.25 – 12.40 **T11** Mr. Mattia Del Giacco

Institute for Pulsed Power and Microwave Technology

"Fretting tests in liquid lead alloy - concept and test

facility."

12.40 – 12.55 **T12 Mr. Andreas Schlaich**

Institut für Hochfrequenztechnik und Elektronik

"Investigations on Parasitic Oscillations in Megawatt

Gyrotrons."

12.55 - 13.05 **FEEDBACK to T9 - T12**

Lecture Hall 2

11.55 - 13.05

Chairman: Dr. Ottmar Möhler

(Institute for Meteorology and Climate Research)

Science Expert: Dr. Joachim Knebel

(Programme "NUKLEAR")

Rhetoric Expert: Mrs. Martina Nöth

(Personalmanagement)

11.55 – 12.10 **T13 Mr. Juergen Feuersenger**

Institute for Inorganic Chemistry

"New heterometallic 3d-4f magnetic complexes."

12.10 - 12.25 **T14** Mr. Andreas Gemsa

Institute of Theoretical Informatics

"Path Schematization for Route Sketches"

12.25 - 12.40 **T15 Ms. Alexandra Baumann**

Institute of Toxicology and Genetics

"Cross-talk between tumour and adult stem cells via

exosomes."

12.40 – 12.55 T16 Mr. Benjamin Behmann

Institute of Production Science

"Enhancement of the serviceability in the machine and

plant industry."

12.55 - 13.05 **FEEDBACK to T13 - T16**

Lecture Hall 1

13.40 - 14.50

Chairman: Dr. Martin Nöllenburg

(Institute of Theoretical Informatics)

Science Expert: Prof. Dr. Andrew Cato

(Institute for Toxicology and Genetics)

Rhetoric Expert: Mrs. Katrin Klink, M.A.

(Personalmanagement)

13.40 – 13.55 **T17 Mr. Christoph Herrmann**

Geodetic Institute

"Determining the synchronisation of cooperating

robots."

13.55 – 14.10 **T18 Mr. Bartlomiej Albinski**

Institute of Materials Research II

"Contactless displacement-measurement for high-

temperature indentation experiments"

14.10 – 14.25 T19 Mr. Wolfgang Rheinheimer

Institute of Ceramics in Mechanical Engineering

"Aging of Schottky Barriers at gold/strontium titanate

contacts and its application."

14.25 – 14.40 **T20** Mr. Bishawjit Mallick

Institute of Regional Science

"Is Coastal Livelihood and Physical Infrastructure a

potent Nexus? Study after the Cyclone Aila in

Bangladesh."

14.40 – 14.50 **FEEDBACK to T17 – T20**

Lecture Hall 2

13.40 - 14.50

Chairman: Dr. Christoph Eberl

(Institute for Materials Research II)

Science Expert: Prof. Dr. Hermann Nirschl

(Inst. of Mechanical Process Engineering & Mechanics)

Rhetoric Expert: Mrs. Martina Nöth

(Personalmanagement)

13.40 – 13.55 **T21 Ms. Ines Schulze**

Institute of Process Engineering in Life Sciences Section II

"Microbial production of yeast single cell oil (SCO) from

waste substrates."

13.55 – 14.10 **T22 Mr. Georg Blesinger**

Institute of Thermal Turbomachines

"The Influence of Combustion on Swirl Flow Fields."

14.10 - 14.25 **T23 Mr. Ansgar Guenther**

Microstructure Technology

"Design of a fully automated assembly unit for integration of SAW sensors into polymer housings for

biomedical applications."

14.25 – 14.40 **T24 Ms. Tanja Hartmann**

Institute of Theoretical Informatics

"On Flows, Trees and the Loveliness of Nature (in the

World of Graphs)."

14.40 – 14.50 **FEEDBACK to T21 – T24**

Group 1

14.55 – 15.45

Dr. Peter Pfeifer

Science Expert:

P	(Institute of Micro Process Engineering)
14.55 – 15.01	P13 Mr. Daniel Bruns Institute of Theoretical Informatics Title not confirmed
	Title not confirmed
15.01 – 15.07	P14 Ms. Anna Keese Institute of Toxicology and Genetics
	"Investigating photocatalytic CO2 reduction to methanol using spectroscopic techniques."
15.07 - 15.13	P15 Ms. Yi Su Institute of Toxicology and Genetics
	"Cell Cycle Control of Wnt Receptor Activation."
15.13 - 15.19	P16 Ms. Stefanie Rech Botanical Institute, Dept. of Plant-Microbial-Interactions "Functional characterization of TC106, a secreted
	protease inhibitor induced during early establishment of arbuscular mycorrhiza symbiosis."
15.19 - 15.25	P17 Mr. Jens Flamm Institut für Hochfrequenztechnik und Elektronik
	"Analysis of cylindrical waveguides with specifically perturbed inner wall using an FFT based spectral method."
15.25 - 15.31	P18 Mr. Mohsen Pouryazdan Institute of Nanotechnology
	"Forced Chemical Mixing in Ag-Cu Immiscible System Using High Pressure Torsion."
15.31 - 15.45	FEEDBACK to P13 - P18

Group 2

14.55 – 15.45

Dr. Lars Hegenbart

Science Expert:

P	(Institute for Radiation Research)
14.55 – 15.01	P19 Mr. Tamer Soylu Institute of Regional Science "Spatial Dynamics of Agglomeration Istanbul. A GIS-Based Approach for the Analysis of Urban Structure."
15.01 – 15.07	P20 Mr. Carlos Azucena Institute of Functional Interfaces "Biofunctionality on a Stick or Tree."
15.07 - 15.13	P21 Mr. Mostafa Toni Geophysical institute "Ambient Vibration Recordings for Preliminary Site Response Estimation in the Urban Area of Cairo, Egypt."
15.13 - 15.19	P22 Mr. Dominic Luetjohann Institute of Toxicology and Genetics "Development of a distributed scientific knowledge system, which allows storage, retrieval and evaluation of heterogeneous data sources."
15.19 - 15.25	P23 Ms. Alexandra-Gwyn Paetz Institute for Industrial Production "Customer acceptance of dynamic tariff models in the electricity market"
15.25 - 15.31	P24 Ms. Mizan Haddish Moges Institute of Highway and Railroad Engineering "Determining the deformation property of asphalt with optimized dynamic testing."
15.31 - 15.45	FEEDBACK to P19-P24

Lecture Hall 1

15.50 - 17.00

Chairman: Dr. Jubin Kashef

(Zoological Institute)

Science Expert: Prof. Dr. Ralf Reussner

(Institute for Software Design and Quality)

Rhetoric Expert: Mrs. Katrin Klink, M.A.

(Personalmanagement)

15.50 – 16.05 **T25 Mr. Vadim Frolov**

Institute of Industrial Information Technology

"Pedestrian Detection and Classification."

16.05 – 16.20 **T26 Mr. Mahesh Kumar Sha**

Institute of Meteorology and Climate Research

"GLORIA- An airborne imaging Fourier Transform Spectrometer for atmospheric limb emissions and

nadir sounding"

16.20 – 16.35 **T27 Mr. Burkhard Scharfenberger**

Institute for Theory of Condensed Matter

"Topological order in quantum antiferromagnets"

16.35 – 16.50 **T28 Ms. Marvam Ramezani**

Institute of Applied Informatics and Formal Description Methods

"Using Machine Learning to Support Continuous

Ontology Development"

16.50 – 17.00 **FEEDBACK to T25 – T28**

Lecture Hall 2

15.50 - 17.00

Chairman: Dr. Christoph Eberl

(Institute for Materials Research II)

Science Expert: Dr. Klaus Gompper

(Institute for Nuclear Waste Disposal)

Rhetoric Expert: Mrs. Martina Nöth

(Personalmanagement)

15.50 - 16.05	T29 Ms. Kristin Hecht
	Institute of Micro Process Engineering
	"Microreactors for Gas/Liquid Reactions."

16.05 – 16.20 **T30 Mr. Holger Kluck**

Institute of Nuclear Physics (IK)

"Dark Matter and muon induced background"

16.20 – 16.35 **T31 Mr. Harsha Umesh Babu**

Institute for Information Processing Technology

"Optical product security techniques."

16.35 – 16.50 **T32 Mr. Steven Peters**

Institute of Production Science

"Dynamic optimization of manufacturing systeMs. to

minimize life cycle costs."

16.50 – 17.00 **FEEDBACK to T29 – T32**

<u>Group 1</u> 17.05 - 17.55

Science Expert:	Dr. Klaus Gompper (Institute for Nuclear Waste Disposal)
17.05 - 17.11	P25 Mr. Sebastian Kobbe Institute of Computer Science & Engineering "Distributed Resource Management for upcoming
	Manycore Architectures."
17.11 – 17.17	P26 Ms. Justine Letienne Institute of Toxicology and Genetics
	"Effect of the interaction between the E3 ubiquitin ligase Mdm2 and subunits of the 19S proteasome: role in p53 degradation."
17.17 - 17.23	P27 Mr. Matthias Hofherr Institute of Micro- und Nanoelectronic SysteMs.
	"Improved understanding of superconducting nanowire single-photon detectors, a key to a better performance."
17.23 - 17.29	P28 Mr. Martin Krueger Institute of Biomedical Engineering
	"Comparison of Methods for Visualization of 3D Myocardial Fiber Structure in Printed Images."
17.29 - 17.35	P29 Mr. Yuefei Zeng Institute of Meteorology and Climate Research "Efficient radar forward operator for operational data
	assimilation."
17.35 - 17.41	P30 Mr. Tobias Stuhlenmiller Institut für Industrielle Bauproduktion "Buildings'contribution to energy storage."
17.41 - 17.55	FEEDBACK to P25 - P30

<u>Group 2</u> 17.05 – 17.50

Science Expert:	Prof. Dr. Ralf Reussner (Institute for Software Design and Quality)
16.55 - 17.01	P31 Mr. Ahmed Gaber Institute for Architectural Design, Art and Theory "The architectonic space in Islamic architecture."
17.01 – 17.07	P32 Mr. Marc Mueltin Institute of Applied Informatics and Formal Description Methods Title not confirmed
17.07 - 17.13	P33 Ms. Rebecca Schmidt Institute of Toxicology and Genetics "Adult neurogenesis in the telencephalon of zebrafish."
17.13 - 17.19	P34 Mr. Patrick Goettner Institute of Finance, Banking and Insurance "Shareholder Wealth Effects of corporate name changes – Evidence from Germany."
17.19 – 17.25	P35 Mr. Sven Glatthaar Insitute for Materials Research III "Effects of Al and F co-doping on LiNi0.5Mn1.504 spinel materials as cathode for 5V lithium rechargeable batteries."
17.25 - 17.50	FEEDBACK to P31-P35