GSISH TUM Graduate School of Information Science in Health

Research Group MITI Minimally Invasive Interdisciplinary Therapeutical Intervention

IMETUM Zentralinstitut für Medizintechnik

MRI Klinikum rechts der Isar

TUM Technische Universität München

TUM BIOMEDICAL ENGINEERING

Workshop-Series TUM Biomedical Engineering

Minimal Invasive Interventions

PROGRAMM – MINIMAL INVASIVE INTERVENTIONS

15:00 Introduction and Welcome
Prof. Dr. rer. nat. Axel Haase
TUM Zentralinstitut für Medizintechnik (IMETUM)

15:10 Surgery in the Year 2025
Prof. Dr. med. Hubertus Feußner
MITI - Minimal-invasive Interdisziplinäre Therapeutische Intervention

15:40 Printable Surgical Robots
Prof. Dr. rer. nat. Tim C. Lüth
Lehrstuhl für Mikrotechnik und Medizingerätetechnik (MiMed)

16:10 The Potential of a Highly Flexible Telescope for Single-Port Surgery: Control Strategies and 3D Environment Perception
Brian Jensen
Chair for Robotics and Embedded Systems (Prof. Dr.-Ing. Alois C. Knoll)

16:40 Coffee Break

17:00 Haptics and Computer-aided Situation Report of Instruments in Minimally Invasive Surgery
Prof. Dr.-Ing. Heinz Wörn
Karlsruher Institut für Technologie (KIT)

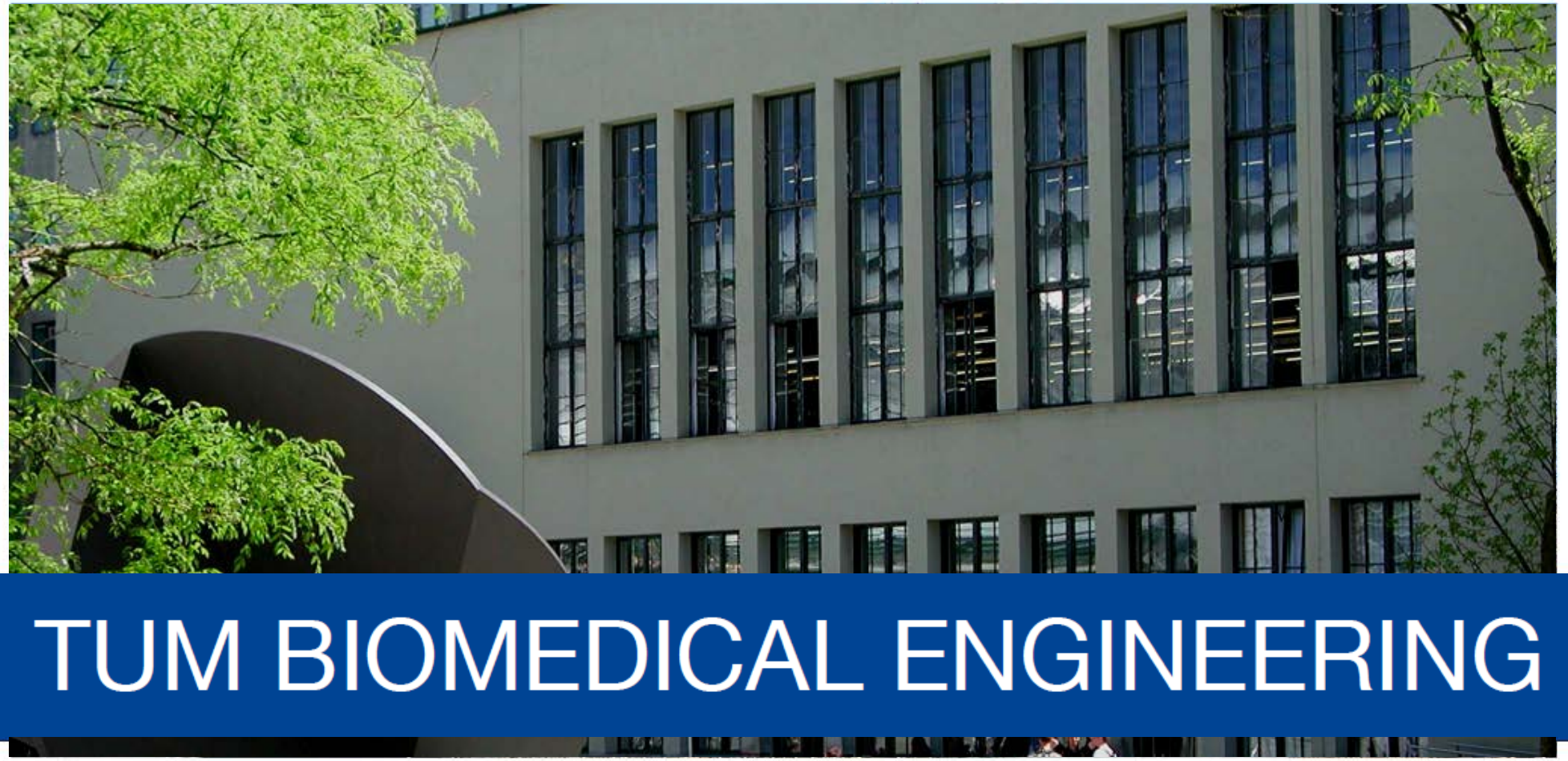
17:30 Endoscopy in the Year 2025
Prof. Dr. med. Alexander Meining
Medizinische Klinik und Poliklinik am Klinikum rechts der Isar der TUM

18:00 Robot Assisted Vitreo-Retinal Surgery
M. Ali Nasseri
TUM Graduate School of Information Science in Health (GSISH)

18:20 Healthcare Robotics
Eva Graf
TUM Graduate School of Information Science in Health (GSISH)

18:40 Hybrid 3-D Endoscopy – The best of both worlds
Sven Haase
TUM Graduate School of Information Science in Health (GSISH)

19:00 Reception



TUM BIOMEDICAL ENGINEERING

Biomechanics – modeling, simulation and applied technologies

Together with PD Dr. Rainer Burgkart
June 5, 2014 I 03.00-06.00pm
TUM Arcisstrasse 21 I Lecture hall 0601-Theresianum

PROGRAMM – BIOMECHANICS

Rainer Burgkart
Orthopädie, Klinikum rechts der Isar

Andreas Bausch
Cell Biophysics, Physik

Arndt Schilling
Plastische Chirurgie, Klinikum rechts der Isar

Christian Große
Non-destructive Testing,
Ingenieurfakultät Bau, Geo, Umwelt

Martijn v. Griensven
Traumatologie, Klinikum rechts der Isar

Ernst Rank
Computation in Engineering,
Ingenieurfakultät Bau, Geo, Umwelt

Thomas Baum/Jan Bauer
Radiologie, Klinikum rechts der Isar