



MON

10:00am
Registration and Get-together

11:15am
Opening Remarks:
Novel biomaterials to be
used in bioinks
Thomas Scheibel

12:00pm
Lunch

13:30pm
Tools for the Entrepreneur:
Patents and Intellectual
Property
Elise DeSimone

14:15pm
A brief introduction to solid
and fluid mechanics
Ben Fabry

15:00pm
Coffee break

15:30pm
A brief introduction to cell
and tissue mechanics
Ben Fabry

16:15pm
4D biofabrication
Leonid Ionov

19:00pm
Blue Bowling

TUE

9:00am
Biomaterials: 'Fit for
Function' design
considerations
Veronica Glattauer

10:00am
Coffee break

10:30am
Introduction to Biofluid
Simulations
Stephan Gekle

11:15am
Rheological Characterization
of Bioinks
Tomasz Jüngst

12:00pm
Lunch

13:30pm
Simple Mathematics behind
rheology or how to make
models
Dirk W. Schubert

14:15pm
Carbohydrates and Bioinks
Jürgen Seibel

15:00pm
Coffee break

15:30pm
Lab Tour
*Prof Gekle/Prof Lang
Prof. Scheibel
Prof Schmidt*

17:00pm
Museum Tour
Markgräfliches
Opernhaus

WED

9:00am
Molecules to neo-tissue
templates
Veronica Glattauer

10:00am
Coffee break

10:30am
Tissue biomechanics and
relation to bioinks
Sahar Salehi

11:15am
Additive Manufacturing
Techniques for Tissue
Engineering
Gregor Lang

12:00pm
Lunch

13:30pm
Führung Fraunhofer

15:00pm
Coffee break

15:30pm
New methods of
polymerizations
Greg Qiao

16:15pm
Applications of polymers
in tissue engineering
Greg Qiao

THUR

9:00am
Biofabrication applications
and future challenges
Veronica Glattauer

10:00am
Coffee break

10:30am
Nanotechnology
at biomedicine -
Alessia Weiß

11:15am
Nanoengineering
of polymeric particles
Alessia Weiß

12:00pm
Lunch

13:30pm
Biofabrication: Definition
and Techniques
Jürgen Groll

14:15pm
Polymeric drugs
Greg Qiao

15:00pm
Coffee break

15:30pm
Nanotechnology - Biomedical
applications for particulate
systems
Alessia Weiß

16:15pm
Physics of hydrogels
Ben Fabry

19:00pm
Dinner & Party at "Sudpfanne"

FRI

9:00am
AFM for measuring
Mechanics and
Interactions
Andreas Fery

10:00am
Coffee break

10:30am
Polymer gradient
materials
*Hans-Werner
Schmidt*

11:15am
Closing Remarks
Prof. Thomas Scheibel

12:00pm
Lunch

13:30pm
Workshop
Rheobase
practical course