

## ▷ Seminar Venue

The Waldhotel Zollernblick is located in the climatic spa Freudenstadt-Lauterbad in the Black Forest region.



## ▷ Directions



Exit highway A 81 Stuttgart-Singen at Horb or the highway A 5 Karlsruhe-Basel at Appenweier or Rastatt. Then, follow the federal road B 28 or B 462, direction Freudenstadt (see map).



From Freudenstadt main station connect to the city station (Stadtbahnhof), which is located 200 m from the city center. Then, take the bus 7161, direction Schiltach Bahnhof. Exit at the bus stop Friedrich-Ebert-Stiftung/Freudenstadt.



Flight connection to Stuttgart-Echterdingen airport, Baden-Airport Söllingen, or Straßburg airport. Then, by car or train to Freudenstadt-Lauterbad.

## ▷ Address

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D - 72250 Freudenstadt-Lauterbad  
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Fax: +49-(0)7441/95099-10  
E-Mail: [info@zollernblick-lauterbad.de](mailto:info@zollernblick-lauterbad.de)  
<http://www.zollernblick-lauterbad.de>

## ▷ Important Dates

Registration: before 15.09.2010
Payment: before 15.09.2010
Arrival: 24.11.2010 - 18:00 h
Begin: 25.11.2010 - 9:00 h
End: 26.11.2010 - 12:30 h
Departure: 26.11.2010 - 15:00 h

For details see tentative programme.

## ▷ Fee

170,- EUR per participant. Includes seminar fees, proceedings, board, and lodging (two nights). Payment must be received before September 15, 2010. Payment details will be provided after confirmed registration.

## ▷ Sponsors

Free space for sponsors!

## ▷ Contact and Registration

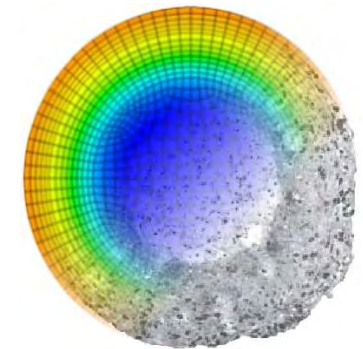
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Institut für Mechanik  
Prof. Dr.-Ing. W. Ehlers

First Announcement  
and Call for Papers

**GAMM** 3rd  
Seminar

## On Continuum Biomechanics



Waldhotel Zollernblick  
Freudenstadt-Lauterbad  
November 24 – 26, 2010

W. Ehlers & B. Markert

GAMM Biomechanics  
Activity Group

<http://www.mechbau.uni-stuttgart.de/l2/gammFA-biomech>

## ▷ Objectives










The seminar serves as a discussion forum that promotes the development and extension of theoretical and numerical concepts in the popular field of biomechanical engineering and mathematical biology. In particular, exposed problems of continuum biomechanics, mechanobiology, and computational biomechanics are of interest, such as the constitutive modelling and numerical simulation of soft and hard tissues.

The informal nature of the seminar presents the opportunity to openly exchange scientific ideas. The welcoming atmosphere of the Waldhotel Zollernblick with an exceptional view on the Swabian Alb will furthermore help to continue the success of the international GAMM seminar series of the Biomechanics Activity Group. Moreover, the organisers are confident that the seminar helps to manifest and to enlarge the biomechanics community in Germany.

## ▷ Scientific Topics

- *Computational Biomechanics*: discretisation methods (FEM, FDM), solution procedures
- *Soft and Hard Tissue Mechanics*: continuum theories, porous media, constitutive modelling
- *Mechanics of Biofluids*: cardiovascular and alveolar fluid mechanics, FSI, CFD
- *Mechanobiology*: growth, modelling and remodelling, stimulation, activation
- *Joint Mechanics, Robotics, and Multibody Dynamics*: motion, contact mechanics, control
- *Cell Mechanics*: discrete modelling, homogenisation, systems biology
- *Prosthetics*: medical implant design, biomaterials, biocompatibility
- *Experimental Methods*: biomechanical testing, imaging, parameter optimisation

## ▷ Tentative Programme

	Wednesday 24.11.10	Thursday 25.11.10	Friday 26.11.10
8:00–9:00		 Breakfast	 Breakfast
9:00–10:30		Welcome (W. Ehlers) <b>Section 1:</b> 3 lectures (1 invited)	<b>Section 5:</b> 3 lectures (1 invited)
10:30–11:00		 Coffee Break	 Coffee Break
11:00–13:00		<b>Section 2:</b> 4 lectures	<b>Section 6:</b> 4 lectures Closing (W. Ehlers)
13:00–14:00		 Lunch	 Lunch
14:30–16:00		<b>Section 3:</b> 3 lectures (1 invited)	Meeting of the Biomechanics Activity Group
16:00–16:30		 Coffee Break	
16:30–18:00	Arrival Check In	<b>Section 4:</b> 3 lectures	
18:30–19:30	 Banquet	 Dinner	

## ▷ General Information

- (1) To guarantee a familiar atmosphere, the total number of participants is restricted to about 50. Please note that single and double rooms are reserved for the seminar.
- (2) The tentative programme schedules 20 presentations. The presentation time is restricted to 25 minutes + 5 minutes for discussion. There will be enough time for further discussions during the breaks and in the evenings.
- (3) The seminar room is equipped with an overhead projector and a video beamer (resolution 1024×768). Moreover, a notebook with a standard Linux and Windows installation is provided.
- (4) The deadline for non-refundable registration is September 15, 2010. Please let us know if there are special preferences concerning the food (vegetarian, diabetic etc.).
- (5) Participants who intend to present a paper must send the title of their presentation accompanied by a short abstract (< 150 words).