

## Physical Limnology 2016

Workshop – Block Course

On the campus “Im Neuenheimer Feld” of the Heidelberg University.  
Building INF (not known yet) seminar room (not known yet)

Schedule of lectures: 4<sup>th</sup> to 8<sup>th</sup> April 2016

Start time	Mon	Tue	Wed	Thu	Fri
9:00-9:30	--	Ex-L1	Ex-M1	Ex-B4	Ex-L2
<b>9:30- 11:00</b>	<b>B1+ex</b>	<b>L2+ex</b>	<b>B4+ex</b>	<b>S1</b>	<b>B7</b>
<b>11:15-12:45</b>	<b>L1+ex</b>	<b>B3+ex</b>	<b>M2</b>	<b>B6</b>	<b>L4</b>
14:15-14:45	Ex-B0	Ex-B1	Ex-B3	Ex-B5	--
<b>15:00-16:30</b>	<b>B2</b>	<b>M1+ex</b>	<b>B5+ex</b>	<b>L3</b>	--

B Dr. Bertram Boehrer (Helmholtz Centre for Environ. Res. – UFZ, Magdeburg)  
L Prof. Andreas Lorke (Univ. Koblenz-Landau, Landau)  
M Prof. Daniel McGinnis (Inst. F.A. Forel, Université de Genève, Switzerland)  
S Dr. Martin Schultze (Helmholtz Centre for Environ. Res. – UFZ, Magdeburg)

ex brief exercise sheet handed out.

Ex exercise group

**B1 - Stratification and circulation of lakes, Navier Stokes – eq.**

**B2 – solutes, solubility, electrical conductivity**

**B3 – density, stability and mixing, deep water renewal**

**B4 – surface waves, seiche, interfacial waves**

**B5 – internal waves**

**B6 – properties of internal waves**

**B7 - Permanent stratification, meromixis, climate sensitivity**

**L1 - Turbulence I: Introduction to turbulence**

**L2 - Turbulence II: Spectral characteristics and measurements**

**L3 - Turbulence III: Momentum and mass transport in turbulent boundary layers**

**L4 - Turbulence IV: Living in turbulence: biological – physical interactions**

**M1 – gas exchange: ebullition and exchange at the surface**

**M2 – Fluxes flow the sediments and through the thermocline**

**S1 – precipitation and redissolution of chemicals in lacustrine waters**

Further Information:

<http://www.ufz.de/index.php?de=18470>

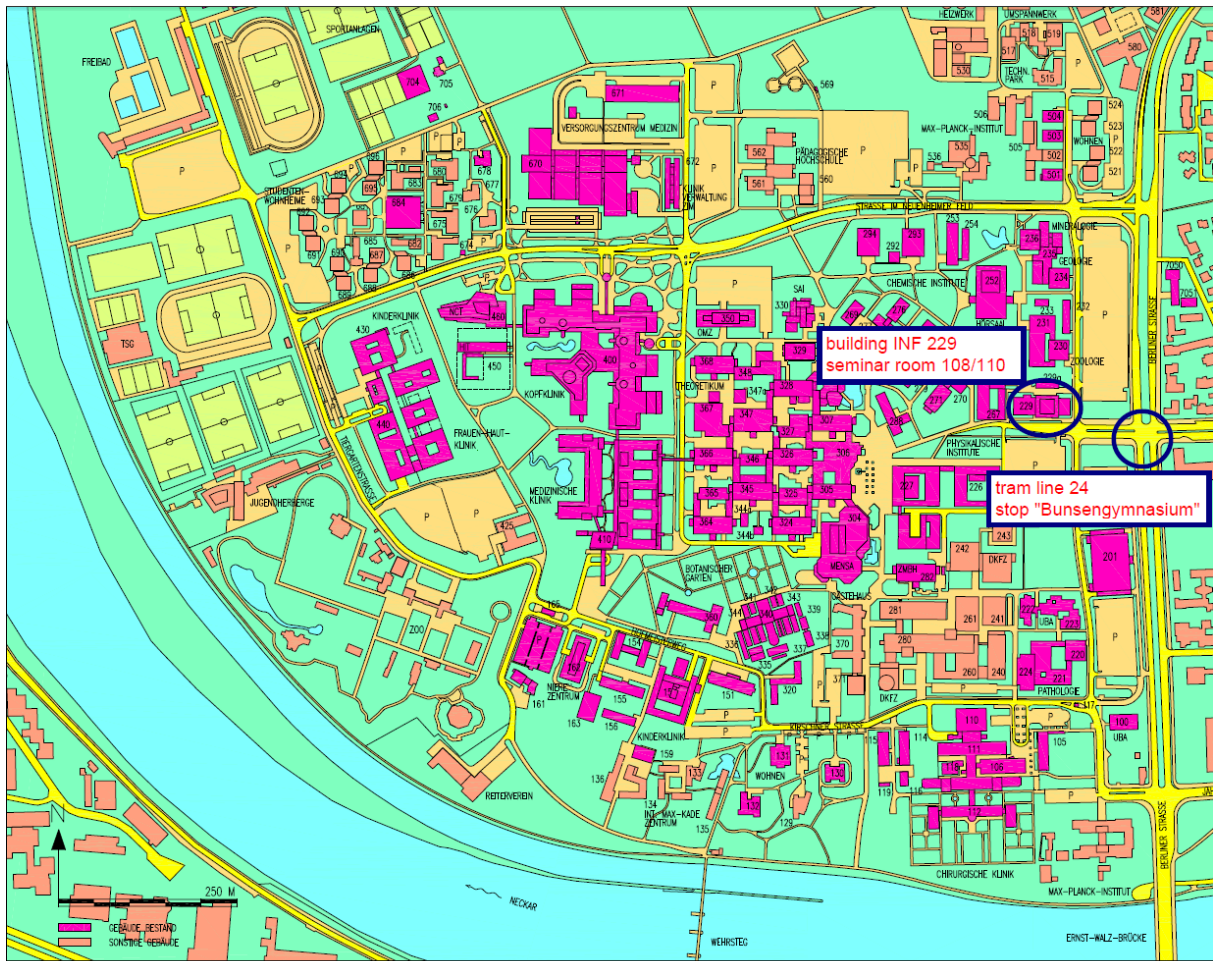
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Breith