

**Workshop “Renewable resources, Sustainability, and Search”  
Heidelberg 12.-14.12.2013**

**Programme (30 min talk 5 min discussion)**

**Thursday 12.12.2013**

- 9:20-9:30      **Opening Remarks** Thorsten Upmann  
**Morning Session** Chair: Stefan Behringer
- 9:30-10:05     *Florian Wagener*  
“Stochastic dynamics (and its bifurcations) of optimally managed tipping lakes”
- 10:05-10:40    *Fausto Gozzi*  
“On the use of Dynamic Programming to solve Optimal Control Problems of Systems driven by DDE’s and PDE’s: Method and Applications”
- 10:40-11:10    **Coffee Break**
- 11:10-11:45    Anton Belyakov, Alexey Davydov, and *Vladimir Veliov*  
“Optimal Cyclical Exploitation of Renewable Resources”
- 11:45-12:20    *Alexey Davydov* and Anton Platov  
“Optimal stationary exploitation of two size-structured competing populations”
- 12:20-14:30    **Buffet Lunch**  
**Afternoon Session** Chair: Anton Belyakov
- 14:30-15:05    *Elena Rovenskaya*  
“Balancing ecology and economy in forestry”
- 15:05-15:40    *Giorgio Fabbri*  
“On the Mitra–Wan Forest Management Problem in Continuous Time”
- 15:40-16:10    **Coffee Break**
- 16:10-16:45    *Askhad Panesh* and Anton Platov  
“Optimization of size-structured populations taking into account the total competition“
- 16:45-17:20    *Franz Wirl*  
“Thresholds, Limit Cycles, and Indeterminacy in Competitive Economies with a Dynamic Externality“
- 19:00-21:00    **Conference Dinner at Hotel Hirschgasse**

**Friday 13.12.2013**

**Morning Session** Chair: Julien Daubanes

- 9:30-10:05 *Irina Petrenko*  
“Filtration in the Water Flow: Model, Stabilisation and Optimization”
- 10:05-10:40 *Anton Belyakov* and Vladimir Veliov  
“Periodic versus constant fishing”
- 10:40-11:10 **Coffee Break**
- 11:10-11:45 *Lev Lokutsievskiy*  
“Vortex Singularities in Search Game and Harvesting Problems”
- 11:45-12:20 *Ngo Van Long*, Charles Figuières, and Mabel Tidball  
“The MBR Intertemporal Choice Criterion and Rawls’ Just Savings Principle”
- 12:20-14:30 **Buffet Lunch**
- Afternoon Session** Chair: Thomas Weber
- 14:30-15:05 *Stefan Behringer* and Thorsten Upmann  
“Optimal Havesting of a Spatial Renewable Resource“
- 15:05-15:40 *Sergey Aseev*  
“On some properties of adjoint variable in relations of the maximum principle for optimal economic growth problems”
- 15:40-16:10 **Coffee Break**
- 16:10-16:45 *Christian Ewald*  
“Salmon Futures and the Fish Pool Market: A Schwartz 97 Two-Factor Approach”
- 16:45-17:20 *Peter Kort*  
“R&D Competition versus R&D Cooperation in Oligopolistic Markets with Evolving Structure”
- 19:00-21:00 **Visit of the Heidelberg Christmas Market**

**Saturday 14.12.2013**

**Morning Session** Chair: Giorgio Fabbri

9:30-10:05 *Julien Daubanes*, André Grimaud, and Luc Rougé  
“Green Paradox and Directed Technical Change:  
The Effect of Subsidies to Clean R&D“

10:05-10:40 *Francis Bloch*, Simona Fabrizi, and Steffen Lippert  
“Learning and Collusion in New Markets with  
Uncertain Costs”

10:40-11:10 **Coffee Break**

11:10-11:45 *Thomas Weber*  
“A Continuum of Commitment in Dynamic Games”

11:45-12:20 Andrew Ledvina and *Ronnie Sircar*  
“Oligopoly Games under Asymmetric Costs and an  
Application to Energy Production”

12:20-14:30 **Buffet Lunch**

**Sunday 15.12.2013**

9:30-11:00 Adjourn and possibility to visit the Heidelberg Castle.