

Agenda

COLIBRI Day & Forum

of the

Field of Excellence

**“Complexity of Life in Basic Research and Innovation”
(COLIBRI)**

Friday, 25th of February 2022

13:00 – 18:00 CEST

SZ 15.21

Uni Graz, Universitätsstraße 15 / II A (ReSoWi), Graz

COLIBRI Day

13:00 Opening

- Thomas Schmickl & Alexander Goritschnig
Speaker & Coordinator, resp.

13:15 – 14:45 Presentations of invited speakers (20' T + 10' Q&A)

- **“The Mechanism of Thermotaxis and Kinesis in Young Honey Bees: a Langevin-based Approach”**
Douwe Jan Bonthuis, Institute of Theoretical and Computational Physics, TU Graz
- **“A Coupling Strategy for a First 3D-1D Model of the Cardiovascular System to Study the Effects of Pulse Wave Propagation on Cardiac Function”**
Federica Caforio, Institute of Mathematics and Scientific Computing, Uni Graz
- **“Global Sensitivity Analysis of Four Chamber Heart Hemodynamics using Surrogate Models”**
Elias Karabelas, Institute of Mathematics and Scientific Computing, Uni Graz

14:45 – 15:15 Break

15:15 – 17:00 Presentations of COLIBRI members (20' T + 10' Q&A)

- **“Practical Experiences to Setup and Run Deep Learning Software on the Educational GPU Node”**
Huan Chen, Institute of Mathematics and Scientific Computing, Uni Graz
- **“Can Robots Inform a Honeybee Colony's Foraging Decision-Making?”**
Dajana Lazic, Institute of Biology, Uni Graz
- **“Spatial Configuration and Material Design at the Resolution of Insects and Microorganisms”**
Asya Ilgün, Institute of Biology, Uni Graz

COLIBRI Forum

17:15 – 18:00

- Status and outlook
Thomas Schmickl, Alexander Goritschnig
- Discussion and deliberation (in particular about new ZLV)
All

Dinner

- **18:30 at Thomawirt**, Leonhardstraße 40, 8010 Graz

Complexity of Life in Basic Research and Innovation

Field of Excellence
University of Graz