

Reinhart Heinrich Doctoral Thesis Award



ESMTB is proud to announce the Reinhart Heinrich Doctoral Thesis Award which is to be presented annually to the student submitting the best doctoral thesis in any area of Mathematical and Theoretical Biology.

Professor Reinhart Heinrich (1946 – 2006) started his research career in theoretical physics and then moved into biochemistry, becoming a full professor and head of theoretical biophysics at the Humboldt University, Berlin in 1990. He is considered a grandfather of the field that is now named Systems Biology, since he investigated various topics such as modeling metabolic networks and metabolic control theory, modeling of signal transduction networks, nonlinear dynamics as applied to biological systems, protein translocation, lipid translocation, vesicular transport, and even DNA repair. Reinhart Heinrich was always searching for the principles that underlie observations, looking for different perspectives and connecting theoretical abstraction with biological evidence. In this way, he inspired numerous students, gave them insight and direction for future research in modern mathematical and theoretical biology, and organized a large number of memorable conferences.

Gratefully acknowledging his stimulating support of our interdisciplinary field and, in particular, his way of guiding students and young scientists, the Board of ESMTB has decided to offer a Doctoral Thesis Award annually to commemorate Reinhart Heinrich and his legacy in mathematical and theoretical biology.

For a number of years, summaries of selected doctoral theses in the field of mathematical and theoretical biology have been published within the *Recent Theses* section in the annual *European Communications (ECMTB No. 1 – 9)*. ESMTB will now **annually honour the best thesis** (showing the most impressive modelling ideas and useful innovative methods) **with an award**. Responsible for the selection will be an **Awarding Committee** consisting of:

Wolfgang Alt (president of ESMTB)
Carlos Braumann
Oleg Demin
Andreas Deutsch
Edda Klipp (former assistant to R. Heinrich)
David Rand
Andre de Roos

Award

A summary of the thesis receiving the award will be published as the lead article in the *Recent Theses* section in the next issue of ECMTB (Communications) at the end of the year, together with brief biographies of themselves and their thesis supervisor.

The **award** includes:

- **an invitation to present a lecture at the next triennial ESMTB Conference or, alternatively, a limited travel grant by ESMTB for a scientific visit of the recipient's own choice;**
- **1 year's free membership of ESMTB.**

Application

To be considered for this award, please send (by e-mail to wolf.alt@uni-bonn.de):

1. an **extended summary of your thesis**,
2. a CV containing your current (or future) scientific affiliation.

The deadline for nominations is **31st of October** of each year, by which time the thesis should have received final acceptance by the institution granting the doctoral degree. Candidates whose theses are received after 31st October will be considered in the next calendar year. Potential applicants may be nominated by any ESMTB member (by writing to wolf.alt@uni-bonn.de).

Shortlisted applicants will be asked to send their full thesis.