



The Society  
Rechenkraft.net  
e.V. (RKN)

Torbjörn Klatt

History

Pre 2004  
The First 6 years  
The Last Year

Current Activities

The Forum  
The Wiki

Own Projects

Supported Projects  
Yoyo@Home  
RNA World

Closing

# The German Non-Profit Society RECHENKRAFT.NET E.V.

History — Achievements — Projects — Future Plans

*by Torbjörn Klatt, Second Chairman*  
Hannover, 2011-08-18





# An Idea Has Been Born

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April 2001 Michael " *Bananeweizen*" Keppler as initial founder of the team RKN started building up the early versions of the project database

June 2001 RECHENKRAFT.NET message board was set up  
next 3 years various discussions and team challenges  
mainly crunching for FOLDING@HOME and SETI@HOME, but new projects got attention as well

*full time line can be found in our Wiki under Association*



# A Start Has Been Made

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Aug. 2004 first foundation meeting

May 2005 the WIKI was set up

June 2005 RECHENKRAFT.NET E.V. got registered at  
district court of Marburg

July 2005 RKN E.V. became officially non-profit

July 2007 first RKN SEAL OF APPROVAL awarded to  
WCG

Sep. 2007 official partner of WCG

*foundation, registration and application for being non-profit done by Michael H.W. Weber*



# Acquiring Donations

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March 2008 German courts can assign penalties to be paid to RKN E.V.

[www.suchkraft.de](http://www.suchkraft.de) as a Google-powered search engine is online

*(Google's advertising revenue is donated to RKN E.V.)*

Nov. 2008 petition addressed to German parliament to enable DC on non-security related public computers

Apr. 2009 initiation of RKN SEISMIC ARRAY

*(supporting QCN)*

June 2009 Uwe "yoyo" Beckert got interviewed by German public TV station ZDF about YOYO@HOME



# Combining Efforts

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June 2010 RKN E.V. presents its own project RNA WORLD on the RNA 2010 conference in Seattle/USA

Sep. 2010 Frank "*frank*" Strohdiek got interviewed by German TV station HR about CPDN further presentations about RNA WORLD at the MIT (Cambridge/USA) and Dresden/Germany

Feb. 2011 RKN E.V. became an official member of the IDGF

**Registered Members:** 71 (as of 2011-08-01)

**Annual Budget:** approx. € 2,900



# An Open and Pleasant Community

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- lively message board with almost 2,000 members
- discussions about every project
- often better and faster project specific support by other volunteers than in the project's message boards
- mainly German but English subboard available

<http://forum.rechenkraft.net/>



# A Steadily Growing Knowledgebase

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- **WikiMedia based** (everybody can contribute)
- **detailed description of (almost) every DC project**
- **multi-language**  
(most pages are already translated into English and Brazilian Portuguese)
- **extensive electronic library with (scientific) publications by (or related to) DC projects**

<http://www.rechenkraft.net/>



# Supporting Rocket Science

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## Constellation@Home

- platform for aerospace simulations
- different applications
- productive since April 2011
- further supporters are DGLR and SELFNET E.V.

<http://www.aerospaceresearch.net/>





# Enabling Others

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*the wrapper platform*  
**Yoyo @ home**  
*for natural science*

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- started as an experiment on Yoyo's (Uwe Beckert) private laptop in 2006
- wrapping DISTRIBUTED.NET client (OGR project)
- officially launched in summer 2007
- further projects got wrapped:  
*Muon, ECM, Evolution@home, Euler, Harmonious Trees*
- *Euler* subproject finished on 26th July, 2011

<http://www.rechenkraft.net/yoyo/>



# Getting a Grip on ncRNAs

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- initialised and run by Michael H.W. Weber, PhD
- scanning the fully sequenced genomes of various organisms to annotate and map ncRNAs
- utilise algorithms provided by the INFERNAL toolkit
- wet-lab experiments by Srinath Thiruneelakantan <sup>1</sup> for in-silico validation
- open access database for all results in development

<http://www.rnaworld.de/>

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<sup>1</sup>Indian Institute of Science, Bangalore, India



# Thank You

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# Thank You For Your Attention

## Any Questions?

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<http://www.rechenkraft.net>  
<http://www.rechenkraft.net/yoyo/>

<http://forum.rechenkraft.net>  
<http://www.rnaworld.de>



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