

Biomolecular NMR-Spectroscopy

Michael Sattler

<http://www.nmr.ch.tum.de/> <http://www.bnmrz.org>

<http://www.helmholtz-muenchen.de>

TUM – facts & figures 2014



- 165 study courses – 13 departments – 3 campus
- TUM Science network (MPG, Helmholtz Center, Fraunhofer Institutes)
- Cooperation and partners worldwide
- 39,081 students (33% F, 22% international), 8,204 graduates
- 511 professors, 10000 staff
- 1013 doctorates (awarded 2014)
- 6,200 papers
- 13 nobel prizes
- > 700 start-ups, > 14,500 jobs
- TUM budget 2014: 1.27 bn €, third-party funds 2014: 278 m €, Fundraising (since 98) 226 m €

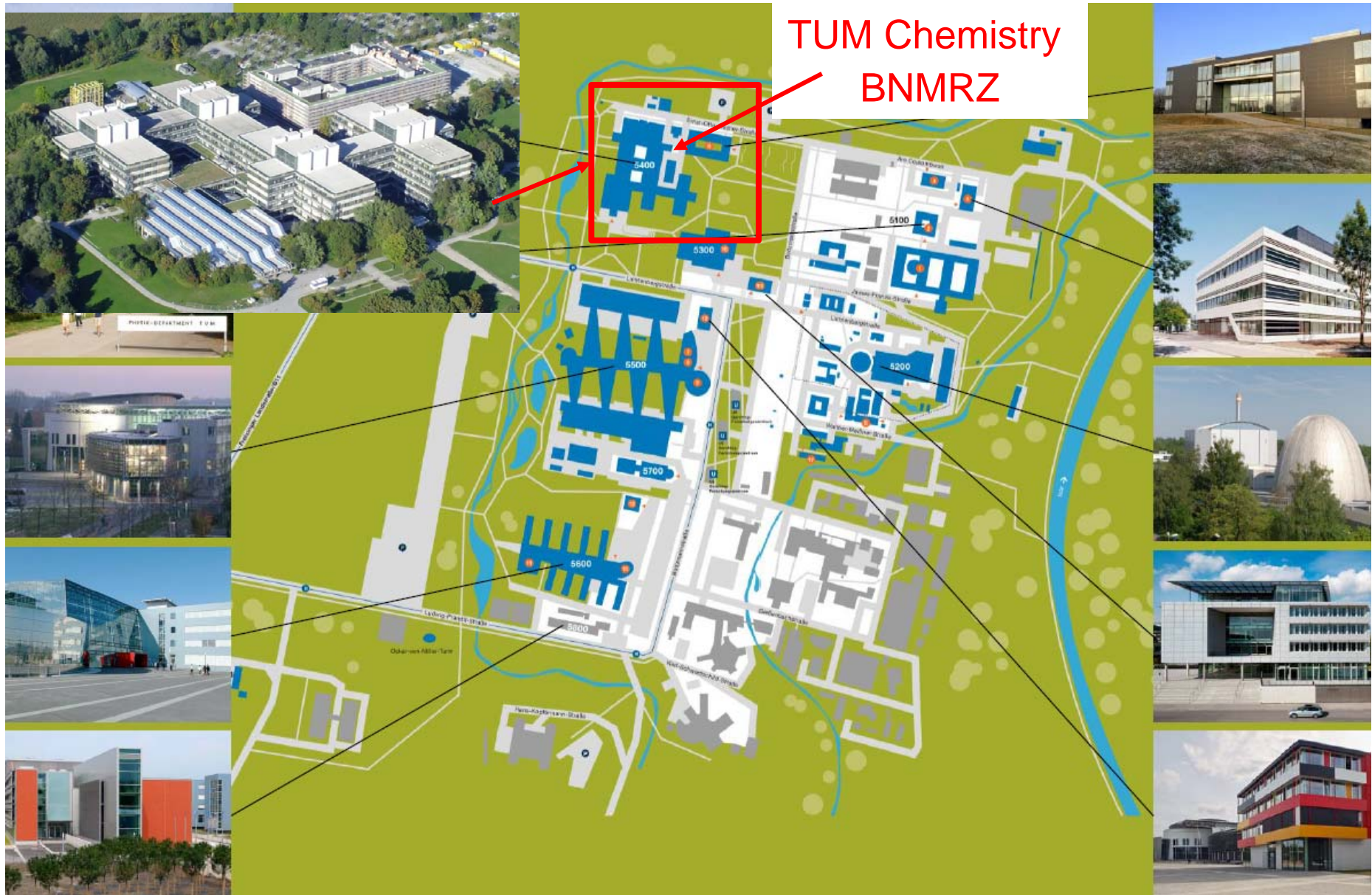
TUM rankings



- **QS** World university ranking 2014: TUM again best German technical university; Top rankings for **natural and engineering** sciences
- **ARWU** / Shanghai ranking 2014: TUM best technical university in Germany; in Europe among the best 4 TU; **Chemistry on place 16 worldwide**
- Very Good marks for EU U-Multirank (research), CHE ranking (teaching & research), global employability survey



TUM Campus Garching



Bayerisches NMR Zentrum (BNMRZ)

Core Members

- Prof. Michael Sattler
- Prof. Bernd Reif
- Prof. Steffen Glaser
- Prof. Horst Kessler (TUM-IAS)
- Prof. Franz Hagn (IAS & HGF NWG)
- Prof. Carlo Camilloni (IAS)
- Prof. Tobias Madl (EN & BioSysNet)
- PD Dr. Sonja Dames

Associated Members

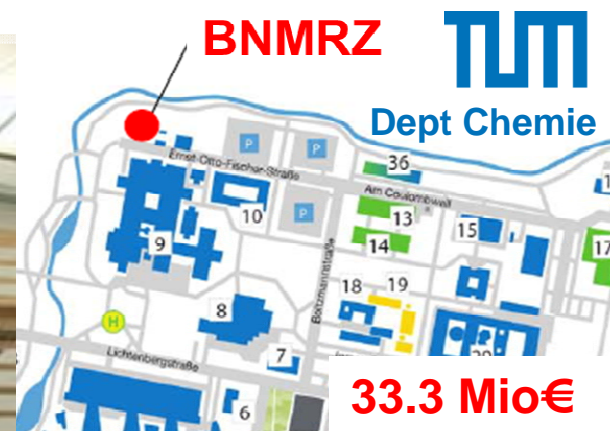
- Prof. A. Haase (TUM-IAS)
- Prof. Thomas Hofmann (TUM-WZW)
- Prof. M. Nilges (Institut Pasteur)

Instruments

- 1.2 GHz (2018)
- **950 MHz (2015, TUM)**
- **800 MHz (2015) wide bore, DNP (HMGU)**
- 900 MHz cryo
- **800 MHz (HMGU)**
- 750 MHz
- 600 MHz cryo
- 600 MHz
- **600 MHz cryo (HMGU)**
- 500 MHz cryo
- 500 MHz wide bore
- 400 MHz wide bore

Staff

- PD Dr. Gerd Gemmecker
- Dr. Rainer Haessner
- Dr. Ralf Stehle
- Dr. Sam Asami (G-NMR)



New building (2017)
1.2 GHz NMR (2018)