LEE CRONIN

Lee Cronin (* 1973) is the Regius Chair of Chemistry at the University of Glasgow. He received his B.Sc. and Ph.D. degrees from the University of York. He was a Leverhulme fellow at Edinburgh (with Neil Robertson, 1997-1999), after that moving to Bielefeld (1999-2000) as an Alexander von Humboldt fellow. Cronin gave the opening lecture at TEDGlobal in 2011 outlining initial steps his team is taking to create inorganic biology, life composed of non-carbon-based material. He was awarded the Corday-Morgan medal (2012), the Tilden Prize (2015) and an ERC Advanced Grant. Cronin was the subject of the film Inorganica, which documents his research in inorganic biology and origins of life.

HENDRIK DIETZ

Hendrik Dietz (* 1977) studied physics in Paderborn, Saragossa (Spain) and at the LMU Munich. After completing his doctorate at TUM (2007), he worked at Harvard Medical School, Boston, USA. Dietz has been a professor of Experimental Biophysics at TUM since 2009. He ranks among the world's leading researchers in DNA nanotechnology, with particular interest in DNA origami. This includes uses in medicine – for diagnosis and therapy – and synthetic enzymes for biologically inspired chemistry. Amongst others, Dietz received two ERC grants (2010, 2016), and was awarded the Hoechst Dozentenstipendium (Aventis Foundation, 2012) and the Gottfried Wilhelm Leibniz-Prize of the DFG in 2015.

GREGORY C. FU

Greg Fu (* 1963) is the Norman Chandler Professor of Chemistry at Caltech. He received a BS degree in 1985 from MIT (K. B. Sharpless) and after earning a PhD from Harvard (1991, D. A. Evans) he spent two years as postdoc (Caltech, R. H. Grubbs). After climbing the ranks at MIT (1993 to 2012), he returned to Caltech, where his laboratory is focused on the development of reagents and methods in organic synthesis, including catalysis, chiral catalysts & ligands, and photoinduced bond-forming processes. He became an Alexander von Humboldt Fellow (2013), was awarded an Arthur C. Cope Scholar Award (1998), the Elias J. Corey Award (ACS, 2004) and, most recently a Herbert C. Brown Award (ACS, 2018).

MARKUS REIHER

Markus Reiher (* 1971) received his PhD in theoretical chemistry (J. Hinze, Bielefeld) in 1998. After habilitation (2002 with B. A. Hess, Erlangen-Nuremberg), he was professor at Bonn (2004/2005) and Jena (2005/2006). Since 2006 he is Professor for Theoretical Chemistry at ETH Zurich. Research in his group is devoted to general theoretical chemistry with a focus on the development of theory and algorithms for the calculation of electronic structures with the aim to selectively extract relevant information from strongly interacting systems without introducing arbitrary assumptions. Awards include the ADUC Prize, 2004), and in 2010 the OYGA award of the Lise-Meitner-Minerva Center for Computational Chemistry Jerusalem.

WWU MÜNSTER

10th Münster Symposium on Cooperative Effects in Chemistry

Castle of the University of Münster
Schlossplatz 2, 48149 Münster
Friday, May 17th 2019

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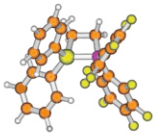
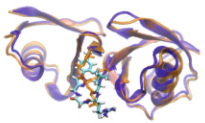
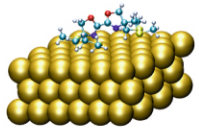
10th MÜNSTER SYMPOSIUM ON COOPERATIVE EFFECTS IN CHEMISTRY

May 17th, 2019

Lee **CRONIN** University of Glasgow, UK
Hendrik **DIETZ** Technische Universität München, GER
Gregory C. **FU** California Institute of Technology, USA
Markus **REIHER** Eidgenössiche Technische Hochschule Zürich, SUI







DFG Deutsche Forschungsgemeinschaft

SFB 858

Contact
SFB 858 - Corrensstraße 40
D-48149 Münster, Germany
Prof. Dr. Armido Studer (Spokesperson)
Dr. Ludger Tebben (Managing Director)
Ann-Christin Grüter (Administrative Assistant)

Synergistic Effects in Chemistry - From Additivity towards Cooperativity

SFB 858

The MS_CEC YOUNG RESEARCHER AWARDS 2019

The Collaborative Research Center (SFB) 858 „Synergistic Effects in Chemistry - From Additivity towards Cooperativity“ invites you to apply for the MS_CEC Young Researcher Awards:

- For outstanding scientific papers with first authorship by
- PhD students, postdocs, and habilitands that are
- published in the field of Molecular Chemistry, Catalysis, Nano Materials, Surface Chemistry, Biochemistry, and Theoretical Chemistry.

Applicants should submit a copy of the publication along with a short summary (one paragraph) detailing their contribution along with their CV by **Tue, April 23rd 2019** (sfb858@wwu.de).

The awardees will be invited to give a short talk on their contribution.

Call for Posters!

The SFB 858 cordially invites young researchers (graduates and postgraduates) to present posters. Please register your poster via sfb858@wwu.de by **Mon, May 5th.**

10th MÜNSTER SYMPOSIUM ON COOPERATIVE EFFECTS IN CHEMISTRY

Schedule, Friday May 17th, 2019

09.55 am Opening Auditorium (Aula), Castle of the WWU Münster

10.00 am Lee **Cronin**
University of Glasgow, United Kingdom
Exploring Chemistry with Autonomous Robots

11.00 am Hendrik **Dietz**
Technische Universität München, Germany
Designing biomolecular devices and machines

12.00 Business Lunch, Coffee
12.30 pm Symposium **Poster Session**

2.15 pm MS_CEC **Young Researcher Awards**
Short Presentations by the Awardees

3.00 pm Markus **Reiher**
Eidgenössische Technische Hochschule Zürich, Switzerland
A bright future for computations in chemistry

4.00 pm Gregory C. **Fu**
California Institute of Technology, Pasadena, USA
Nucleophilic Substitution Reactions:
A Radical Alternative to S_N1 and S_N2 Reactions

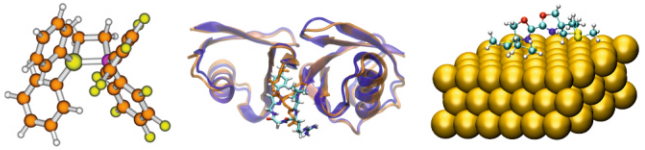
5.00 pm MS_CEC **Poster Prizes**
Closing Remarks

10 Years
MÜNSTER SYMPOSIUM ON COOPERATIVE EFFECTS IN CHEMISTRY

VISIT MÜNSTER IN SPRING

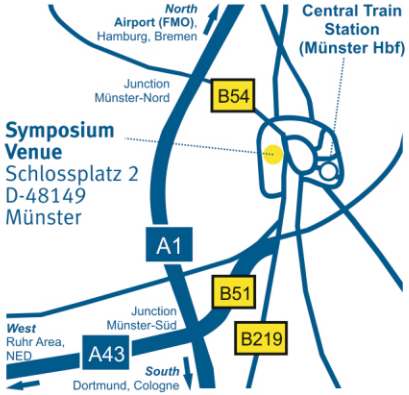
SFB 858

Cooperative effects in chemistry arise from the mutual interactions amongst components within a multi-component system. Cooperative effects can modulate the overall chemical behavior. Therefore, the aggregate may display novel properties, which are different from the properties of the individual components. Cooperativity describes modulation and regulation effects as a result of the mutual interactions between the constituents. We believe that cooperativity can be viewed as a far more general phenomenon than it is interpreted today. The Münster researchers, unified within the SFB 858, identify, explore, and exploit cooperative effects.



Your Way to Münster

by Car
Via A1 (junction north) following the B54 (Steinfurter Straße) leading into B219 (Schlossplatz). Via A1/A43 (junction south) following B219 (Weseler Straße) until Schlossplatz.



by Train
If you reach Münster by train (Münster/Westf. Hbf), bus lines no 1 (stop Schlossplatz), 5, 6 (stop Überwasserstraße) 11, 12, 13 (stop Landgericht) transfer you to the Castle.

by Airplane
Münster Airport (FMO) is well connected to several airports (e.g. Frankfurt). Frequent bus transfer to the city center is available.