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 TED Global 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 Inorganicus, which documents his research in inorganic biology and origins of life.

Hendrik Dietz (* 1977) studied physics in Paderborn, Saragos (Spain) and at the LMU Munich. After completing his doctoralate 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 diagnostics and therapy – and synthetic enzymes for biologically inspired chemistry. Amongst others, Dietz received two ERC grants (2010, 2016), and was awarded the Hocheist Dozentenstipendium (Fondsgründung, 2011) and the Gottfried Wilhelm Leibniz-Prize of the DFG in 2015.

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 (* 1971) received his PhD in theoretical chemistry (I. Hinojosa, Bielefeld) in 1998. After habilitation (2002 with B. A. Hess, Erlangen-Nuremberg), he was professor at Bielefeld (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 DFG award of the DFG-Mehrweg-Minerva Center for Computational Chemistry Jerusalem.

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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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Synergistic Effects in Chemistry - From Additivity towards Cooperativity
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10th MÜNSTER SYMPOSIUM ON COOPERATIVE EFFECTS IN CHEMISTRY

**Schedule, Friday May 17th, 2019**

09.55 am
Opening
Auditorium (Alte), 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 $S_N^1$ and $S_N^2$ Reactions

5.00 pm
MS_CEC Poster Prizes
Closing Remarks

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

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Via A1 (junction north) following the B54 (Steinfurter Straße) leading into B219 (Schlossplatz). Via A1/A443 (junction south) following B219 (Weseler Straße) until Schlossplatz.

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

by Airplane
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