

WESTFÄLISCHE
WILHELMUS-UNIVERSITÄT
MÜNSTER

6th MÜNSTER SYMPOSIUM ON COOPERATIVE EFFECTS IN CHEMISTRY

2015
May 8th

Münster,
Germany

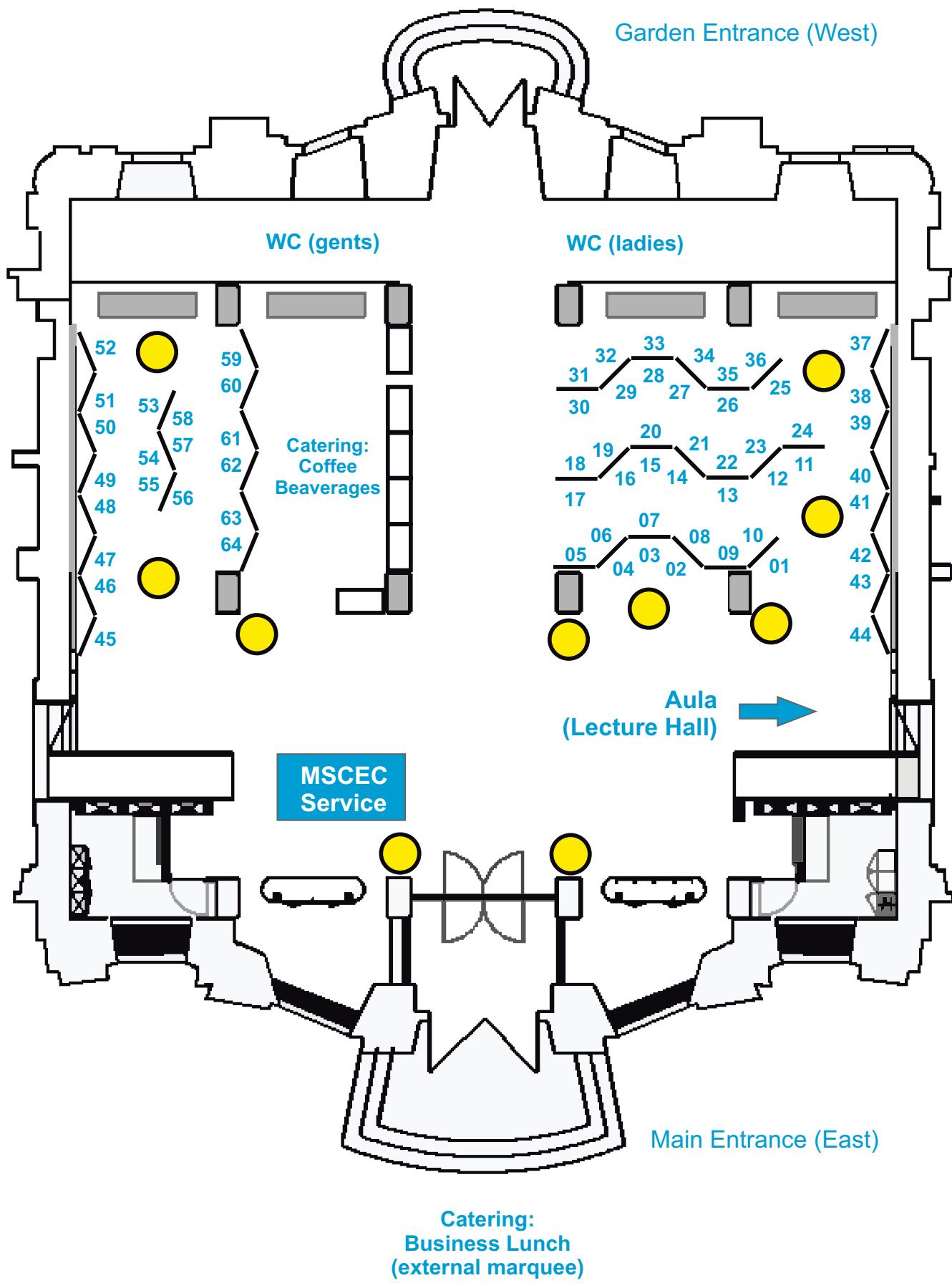
Book of Abstracts



Symposium Schedule

Friday, May 8th 2015, Aula, Schloss of the WWU Münster

9.55 am	Opening Armido Studer Spokesperson of the SFB 858	
10.00 am	Luisa De Cola Université de Strasbourg, FRA <i>Controlling and Imaging Self-Assembly</i>	<i>Chair: Pol Besenius</i>
11.00 am	Holger Braunschweig Julius-Maximilians-Universität Würzburg, GER <i>Single, Double, Triple, Chains: New Forays into Boron-Boron-Bond Formation</i>	<i>Chair: Fabian Dielmann</i>
12.00	Business Lunch	
12.30 pm	Symposium Poster Session	
2.15 pm	MS_CEC Young Researcher Awards 2015 Janina Bucher, MSc, Organisch-Chemisches Institut, Ruprecht-Karls-Universität Heidelberg, GER Dipl.-Chem. Sven Neudeck, Institut für Anorganische Chemie, Georg-August-University Göttingen, GER	<i>Chair: Frank Glorius</i>
3.00 pm	Kendall N. Houk University of California Los Angeles, USA <i>Computational Chemical Biology</i>	<i>Chair: Mark P. Waller</i>
4.00 pm	Matthew J. Gaunt University of Cambridge, UK <i>Palladium Catalyzed C–H Activation of Aliphatic Amines</i>	<i>Chair: Ulrich Hennecke</i>
5.00 pm	MS_CEC Poster Prize Announcements Closing Remarks	



Poster Contributions

in alphabetical order (presenting author's surname)

Nr.	Authors	Institution	Title
01.	<u>Francisco Aznarez</u> , Steffen Cepa, F. Ekkhardt Hahn*	WWU Münster / SFB 858	Possible Cooperativity in the Synthesis of Ir ^{III} Complexes Bearing Chelating NH,NR- NHC/Phosphine Ligands
02.	<u>Katharina Bartels</u> , Benjamin Schinor, Günter Haufe*	WWU Münster	Phenylcyclopropylamines as Monoamine Oxidase Inhibitors and Precursors for ¹⁸ F-Radiolabelling
03.	<u>Kevin Baumgärtner</u> , Frank Rominger, Michael Mastalerz*	Ruprecht-Karls-Universität Heidelberg	Oxidative Ring-Opening of Triptycenes to Highly Functionalized Fluorene Derivatives
04.	<u>Srikrishna Bera</u> , Ramesh C. Samanta, Constantin G. Daniliuc, Armido Studer*	WWU Münster	Asymmetric Synthesis of Highly Substituted β-Lactones via Oxidative Carbene Catalysis with LiCl as Cooperative Lewis Acid
05.	<u>Luis Bering</u> , Andrey P. Antonchick*	Max-Planck-Institut für molekulare Physiologie Dortmund / TU Dortmund	Regioselective Metal-Free Cross-Coupling of Quinoline N-Oxides with Boronic Acids
06.	Benedict Kemper, Yana R. Hristova, <u>Pol Besenius</u> *	WWU Münster / SFB 858 Johannes Gutenberg- Universität Mainz	Self-Assembly of Amphiphilic, Peptidic Au(I)-Phosphane Complexes into Luminescent Micelles in Water
07.	<u>Bernd Beutel</u> , Hanna Gerwien, SuNa Kim, Christian Kuhn, Benjamin Schinor, Jian Song, Reshma Vidyadharan, Lydia M. Sorokin, Günter Haufe*	WWU Münster	Fluorinated and Non-Fluorinated Non- Hydroxamate Matrix Metalloproteinase Inhibitors
08.	<u>Janina Bucher</u> , A. Stephen K. Hashmi*	Ruprecht-Karls-Universität Heidelberg	CO Extrusion in Homogeneous Gold Catalysis
09.	<u>Matthias Dahlkamp</u> , Werner Uhl*, Ernst-Ulrich Würthwein*	WWU Münster / SFB 858	The First Aluminum-Sulfur-Based Frustrated Lewis Pair
10.	<u>Michael Deffner</u> , Florian Schulz, Carmen Herrmann*, Holger Lange*	Universität Hamburg	Plasmonic and transport properties of gold nanoparticle clusters

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Nr.	Authors	Institution	Title
11.	<u>Abhishek Dewanji</u> , Sandip Murarka, Dennis P. Curran, Armido Studer*	WWU Münster / University of Pittsburgh	Phenyl Hydrazine as an Initiator for Base Promoted Direct Arene C-H Arylation: Replacing Transition Metal Catalysis by Electron Catalysis
12.	<u>Sven M. Elbert</u> , Frank Rominger, Michael Mastalerz*	Ruprecht-Karls-Universität Heidelberg	A Highly Porous Molecular Cube Based on a Rigid C_{3v} -Symmetric Tris(salicylaldehyde)
13.	<u>Martin Elstner</u> *	Technische Universität Dresden	Chemical information processing materials
14.	<u>Tobias Gensch</u> , Suhelen Vásquez-Céspedes, Da-Gang Yu, Frank Glorius*	WWU Münster	Cobalt(III) catalyzed C–H-Cyanation, Halogenation and Allylation
15.	<u>Lynn Groß</u> , Annette U. Wurl, Alejandra Escribano, Jürgen Heck, Christian Klinke, Carmen Herrmann*	Universität Hamburg	Non-covalent functionalization of carbon nanotubes with photoswitches: Probing changes in the photoswitch's dipole moments
16.	<u>Marcel Hartmann</u> , Armido Studer*	WWU Münster	Preparation of Phenanthrenes from <i>ortho</i> - amino-biphenyls and alkynes <i>via</i> base- promoted-homolytic aromatic substitution
17.	<u>Markus Hellmund</u> , Katharina Achazi, Falko Neumann, Bala N. S. Thota, Nan Ma, Rainer Haag*	Freie Universität Berlin	Influence of charge density and size of hyperbranched polyglycerol amines during in vitro studies
18.	<u>Lena Hesping</u> , Anup Biswas, Constantin G. Daniliuc, Christian Mück-Lichtenfeld, Armido Studer*	WWU Münster	Stereoselective Lewis Base Catalyzed Formal 1,3-Dipolar Cycloaddition of Azomethine Imines with Mixed Anhydrides
19.	<u>Oldamur Hollóczki</u> , Barbara Kirchner*	Rheinische Friedrich- Wilhelms-Universität Bonn	Chemical absorption of carbon dioxide in imidazolium acetate ionic liquids
20.	<u>Sinaida Igde</u> , Hendrik Wöhlk, Susanna Röblitz, Marco Reidelbach, Markus Weber, Laura Hartmann*	Heinrich-Heine-Universität Düsseldorf	Identifying multivalent binding kinetics of precision Glycomacromolecules: A kinetic study using kinITC

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21.	<u>Era Kapourani</u> , Dirk Steinhilber, Torsten Rossow, Rainer Haag*	Freie Universität Berlin	Dendritic Polyglycerols for the Bioorthogonal Encapsulation of Bioactive Substrates
22.	<u>Kevin Klahr</u> , Ibrahim Yentar, Danny Schlüns, Christian Mück-Lichtenfeld, Johannes Neugebauer*	WWU Münster / SFB 858	Subsystem-DFT potential energy curves for weakly interacting systems
23.	<u>Felix Klotter</u> , Armido Studer*	WWU Münster	“From red wine to cannabis!” - Palladium- catalyzed decarboxylative γ -arylation as general tool for divergent total synthesis
24.	<u>Kai R. Korschning</u> , Dirk Schlüter, Vladimir A. Azov*	Universität Bremen	Calix[4]arene-Monopyrrolotetra- thiafulvalene Molecular Tweezers for Recognition of Electron Deficient Guests
25.	<u>Felix Krätzschmar</u> , Martin Kassel, Daniel Delony, Alexander Breder*	Georg-August-Universität Göttingen	Selenium-Catalyzed C(sp ³)–H Acyloxylation of Allylated Benzoic Acids
26.	<u>Myungmo Lee</u> , Chiara Cabrele, Oliver Reiser*	Universität Regensburg	Visible Light Photoredox-catalyzed Desulfurization of Cysteine and Disulfide Compounds
27.	<u>Dirk Leifert</u> , Armido Studer*	WWU Münster	Electron as a Catalyst – Synthesis of Fluorenones, Phenanthridines and Silafluorennes
28.	<u>Linda Lempke</u> , Norbert Krause*	Technische Universität Dortmund	Allenes meet Fluorine
29.	<u>Hsuan-Hung Liao</u> , Chien-Chi Hsiao, Sadiya Raja, Iuliana Atodiresei, Magnus Rueping*	Rheinisch-Westfälische Technische Hochschule Aachen	Harvesting <i>ortho</i> -Quinone Methides as Latent Intermediates for Asymmetric Brønsted Acid Catalyzed Reactions
30.	<u>Debabrata Maity</u> , Carsten Schmuck*	Universität Duisburg-Essen	Selective Ratiometric Detection of Heparin in Plasma Using Molecular Peptide Beacon

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31.	<u>Michal Májek</u> , Axel Jacobi von Wangelin*	Universität Regensburg	Visible-light photocatalysis with eosin Y
32.	<u>Srimanta Manna</u> , Andrey P. Antonchick*	Max-Planck-Institut für molekulare Physiologie Dortmund / TU Dortmund	Organocatalytic Oxidative Annulation of Benzamide Derivatives with Alkynes
33.	<u>Georg Manolikakes</u> *, Tamara Beisel	Goethe-Universität Frankfurt	Palladium-Catalyzed Asymmetric Three- Component Synthesis of α -substituted Amides and α -Amino Acids
34.	<u>Katharina Martinewski</u> , <u>Matthias Willeke</u> , Werner Uhl*	WWU Münster / SFB 858	Activation of isocyanates and isothiocyanates by Al- and Ga-N based active Lewis pairs
35.	<u>Martin Meier</u> , F. Ekkehardt Hahn*	WWU Münster / SFB 858	Polynuclear metal complexes from coordinated β -functionalized isocyanides
36.	<u>Jan B. Metternich</u> , Ryan Gilmour*	WWU Münster	Photo-(organo)catalytic E \rightarrow Z Isomerisation using (-)-Riboflavin
37.	Soumen De, Susnata Pramanik, Sudhakar Gaikwad, <u>Nikita Mittal</u> , Michael Schmitt*	Universität Siegen	Triangular Nanoswitches: A Novel Strategy for Switching, Regulation of Catalysis and Communication
38.	<u>Sandip Murarka</u> , Zhi-Jun Jia, Christian Merten, Constantin-G. Daniliuc, Andrey P. Antonchick*, Herbert Waldmann	Max-Planck-Institut für molekulare Physiologie Dortmund / TU Dortmund	Rhodium(II) Catalyzed Enantioselective Synthesis of Troponoids
39.	<u>Stefan Ortgies</u> , Alexander Breder*	Georg-August-Universität Göttingen	Selenium-Catalyzed Intramolecular Oxidative C(sp ²)–H Amination of Alkenes
40.	<u>Tobias Otremba</u> , Bart Jan Ravoo*	WWU Münster / SFB 858	Functionalized Peptides as Carbohydrate Receptors

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41.	<u>Felix Pape</u> , Niklas O. Thiel, Johannes F. Teichert*	Technische Universität Berlin	Z-Selective Cu-catalyzed Alkyne Semihydrogenation
42.	<u>Tatiana Casselli Penna</u> *, Luiz Felipe de Oliveira Faria, Mauro Carlos Costa Ribeiro	Rheinische Friedrich- Wilhelms-Universität Bonn	Raman spectroscopy study on the temperature and pressure effects on propylammonium nitrate
43.	<u>Vincenzo Ramella</u> , Zhiheng He, Constantin G. Daniliuc, Armido Studer*	WWU Münster / SFB 858	Diastereoselective Synthesis of Highly Substituted Indolines
44.	Debabrata Samanta, <u>Anup Rana</u> , Michael Schmittel*	Universität Siegen	Nonstatistical Dynamics in the Thermal C2-C6/Diels-Alder Cyclization of Enyne- Allenes
45.	<u>Christian Rösner</u> , U. Hennecke*	WWU Münster / SFB 858	The Homohalocyclization – Electrophilic bromine induced cyclization of cyclopropanes
46.	<u>Andreas Rühling</u> , Frank Glorius*	WWU Münster / SFB 858	Synthesis and Investigation of a novel and remarkably simple hybrid Surfactant-NHC ligand, its Gold-complex and Application in Micellar Catalysis
47.	<u>Hülya Sak</u> , Norbert Krause*	Technische Universität Dortmund	Synthesis and Application of Water Soluble β -Cyclodextrin-NHC-Gold Complexes
48.	<u>Iris Sancho Sanz</u> , Barbara Kirchner*	Rheinische Friedrich- Wilhelms-Universität Bonn	Formation of different Frustrated Lewis pairs within Ionic Liquids
49.	<u>Alexander Schmidt</u> , Christian Radunsky, Jutta Kösters, Jens Müller*	WWU Münster / SFB 858	Stabilization of G-quadruplex DNA by metal complexes with multidentate ligands
50.	<u>Heiner Schröder</u> , Anne Creon, Tobias Schwabe*	Universität Hamburg	Reformulation of the D3(Becke-Johnson) dispersion correction without resorting to higher than C6 dispersion coecient

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51.	<u>Suranjan Shil</u> , Carmen Herrmann*	Universität Hamburg	Magnetic crossover through oxidation
52.	<u>Narayan Sinha</u> , F. Ekkehardt Hahn*	WWU Münster / SFB 858	Single-Step Synthesis of an Organometallic Molecular Square Featuring only M–C Bonds
53.	<u>Nafiseh Soltanmohammadi</u> , Pavel Lulchev, Dagmar Klostermeier*	WWU Münster / SFB 858	Identification of DNA binding sites, assigning domain function and domain interactions in the catalytic cycle of reverse gyrase
54.	<u>Klaus Speck</u> , Konstantin Karaghiosoff, Thomas Magauer*	Ludwig-Maximilians- Universität München	Sequential O–H/C–H Bond Insertion of Phenols Initiated by the Gold(I)-Catalyzed Cyclization of 1-Bromo-1,5-enynes
55.	<u>Torben Steenbock</u> , Alejandra Escribano, Sarah Puhl, Jürgen Heck, Carmen Herrmann*	Universität Hamburg	Communication of spins in different systems: A first-principles study
56.	<u>Kim F. Taupitz</u> , <u>Lisa J. Kost</u> , Henning D. Mootz*	WWU Münster / SFB 858	Photoinducible crosslinking as a tool for mapping specific interactions in multi protein complexes
57.	<u>Christian Thiehoff</u> , Mareike C. Holland, Constantin Daniliuc, Kendall N. Houk*, Ryan Gilmour*	WWU Münster / SFB 858	Can Acyclic Conformational Control be Achieved <i>via</i> a Sulfur-Fluorine Gauche Effect?
58.	<u>Dirk Ulbrich</u> , Constantin Daniliuc, Günter Haufe*	WWU Münster	Synthesis of Protected α -Fluoro- α -Amino Acids
59.	<u>Anna Ulmer</u> , Tanja Gulder*	Technische Universität München	Metal-free Halogen-Triggered Synthesis of New Structural Key Motifs
60.	<u>Jan P. Unsleber</u> , Thomas Dresselhaus, Johannes Neugebauer*	WWU Münster / SFB 858	Towards Accurate Wavefunction-in-DFT Embedding for Transition Metal Catalysts

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61.	<u>Emy van Aert</u> , Thuur van Onzen, Luc BrunsVELD*	Technische Universiteit Eindhoven	Fluorescent amphiphiles incorporated in liposomes and a pH-dependent system concept for imaging
62.	<u>B. Alexander Voigt</u> , Carmen Herrmann*	Universität Hamburg	Influence of exact exchange on the diradical character
63.	<u>Kerstin Wallraven</u> , Adrian Glas, David Bier, Gernot Hahne, Christoph Rademacher, Christian Ottmann, Tom N. Gossmann*	Max-Planck-Institut für molekulare Physiologie Dortmund / TU Dortmund	Introduction of hydrophobic crosslinks into peptides to constrain irregular secondary structures
64.	<u>Anja Wiegand</u> , Norbert Krause*	Technische Universität Dortmund	Synthesis of Propargylamines using Carbohydrate-Containing NHC-Gold-Complexes