ALUMNI

SCIENTIFIC STAFF

Scientific Staff: Dr. Jan Porada (March 2013 – March 2016)

Awards: DAAD Travel Fellowship 2014

3. Poster Award, EDC 2015

Project: New and Promising Tailor-made Surfactants for the Formulation of

Microemulsions with Water and Hydrophobic Ionic Liquids

Scientific Staff: *Dr. Sandra Engelskirchen* (November 2009 – September 2012)
Project: Enzyme-Catalyzed Reactions in Bicontinuous Microemulsions

POST-DOCS

Post-Doc: Dr. Tetiana Orlova (December 2018 – December 2019), co-supervision

with Dr. Drenckhan

Project: Interactions in Thin Liquid Films: Towards Non-Aqueous Foams,

Emulsions & Dispersions

Post-Doc: Dr. Enda Carey (June 2010 – May 2012) Awards: Herbert Sinner Award 2010 for PhD Thesis

1. Poster Award, EDC 2009

Project: Defoamers and Antifoamers

Post-Doc: *Dr. Gabriela Catanoiu* (June 2009 – June 2011)

Award: Award of the GDCh Fachgruppe Waschmittelchemie 2010

Projects: Properties of New Inositol-Based Surfactants; Microemulsions with Ionic

Liquids

Post-Doc: *Dr. Jan Porada* (April 2010 – January 2011)

Project: Reactions in Complex Ionic Fluids

Post-Doc: Dr. Fabian Schüler (August 2009 – July 2011)

Project: Design and Manufacture of High Performance Energy Absorbing Foams

Post-Doc: *Dr. Dharmesh Varade* (June 2008 – December 2008)

Project: Foams stabilized by Surfactant Mixtures

Post-Doc:Dr. Daniel Angelescu (April 2008 – November 2008)Project:Microemulsions as Templates for New MaterialsPost-Doc:Dr. Sandeep Patil (September 2006 – November 2008)Project:Set-up and Improvement of the DIT-NIR methodPost-Doc:Dr. Natalie Buchavzov (January 2008 – March 2008)

Project: Foam Films stabilized by Surfactant Mixtures **Post-Doc:** *Dr. Reza Najjar* (August 2006 – August 2007)

Project: Microemulsions as Templates for Intermetallic Nanoparticles

Post-Doc: Dr. Marion Lescanne (December 2005 – June 2007)

Project: Foam Films stabilized by Surfactant Mixtures

PhD STUDENTS

PhD: *Katja Steck* (October 2016 – March 2020)

Award: DAAD Travel Fellowship 2019
Project: Gelled Lyotropic Liquid Crystals

PhD: Sébastien Andrieux (October 2014 – April 2018)

Project: Monodisperse Highly-Ordered and Polydisperse Bio-based Solid Foams

Award: Springer Thesis Award 2019

PhD: Aggeliki Quell (geb. Avramidou) (October 2013 – May 2017: PhD Defence

Dec 2016)

Project: Monodisperse Emulsions as Template for Highly Structured Polymer Foams

Awards: DAAD Short-Term Fellowship 2015 (Australia)

Poster Award, EDC 2015
 Poster Award, EDC 2016

PhD: Jonas Elsing (April 2013 – March 2017)

Award: DAAD Travel Fellowship 2014

Project: Foamed Styrene-in-Water Emulsions as Template for Highly Ordered,

Monodisperse Polystyrene Foams

PhD: Jan Thater (June 2012 – September 2016: PhD Defence Sep 2016)

Award: 1. Poster Award, EDC 2013

Project: Green Microemulsions with Ionic Liquids: Phase Behavior, Interfacial

Composition, Microstructure

PhD: Anne Steudle (Dec 2011 – May 2015; Oct 2012 – June 2014 in Durham:

PhD Defence May 2015)

Award: Award of the GDCh Fachgruppe Chemie des Waschens 2016
Project: Enzyme-Catalyzed Reactions in Bicontinuous Microemulsions

PhD: Mireia Subinyà (April 2011 – July 2014: PhD Defence Mar 2014)

Award: STSM Fellowship COST D43 2011

Project: The lipase Candida Antarctica B in Bicontinuous Microemulsions: A

structural study

PhD: Ramona Baum (June 2010 – March 2014: PhD Defence Dec 2013)

Award: DAAD Travel Fellowship 2012

Project: Characterization of Mono- and Bimetallic Nanoparticles synthesized via

Microemulsions

PhD: *Michaela Laupheimer* (April 2010 – Aug 2014: PhD Defence Nov 2013)

Awards: Stipend of the Landesgraduiertenförderung 2010-2013

1. Poster Award, EDC 2010 DAAD Travel Fellowship 2012

STSM Fellowship COST CM1101 2012

Springer Thesis Award 2014

Preis der Freunde der Universität Stuttgart 2014

Award of the GDCh Fachgruppe Chemie des Waschens 2014

Project: Gelled bicontinuous microemulsions as new orthogonal self-assembled

systems

PhD: Julia Boos (Oct 2009 – March 2013: PhD Defence Dec 2012)

Awards DAAD Travel Fellowship 2012

Award of the GDCh Fachgruppe Chemie des Waschens 2013

Distinguished Paper Award of the American Cleaning Institute 2013

Project: Correlation between Surfaces, Foam Films, and Foams

PhD: Lukasz Szymanski (April 2008 – July 2011)

Project: Synthesis of New Materials for Bulk Heterojunction PV Cells

PhD: *Miguel Magno* (September 2007 – October 2010)
Project: Microemulsions as Templates for New Materials

PhD: *Enda Carey* (October 2006 – May 2010)

Project: Surfaces, Foam Films, and Foams of Surfactant Mixtures

PhD: Renate Tessendorf (March 2007 – April 2009)

Project: Microemulsions as Templates for New High Surface Area Polymers

PhD: *Natalie Buchavzov* (January 2005 – December 2007)

Project: Grenzflächenverhalten binärer Tensidmischungen: Adsorption,

Oberflächenrheologie, Filmstabilität

PhD: Judith Schlarmann (July 2001 – May 2004)

Project: Zum Grenzflächenverhalten nichtionischer Tenside: Adsorption,

Oberflächenkräfte, Filmstabilität

PhD: Christian Frank (July 2001 – July 2004) – 30% co-supervision Project: Lyotrope Mesophasen in Nachbarschaft von hocheffizienten

Mikroemulsionen

PhD: Stefan Müller (January 2000 – December 2002) – 30% co-supervision Project: Neuartige Nanostrukturen im Lichte von Neutronen und Photonen: Giant

microemulsions

PhD: Stefan Burauer (June 1998 – February 2002) – 30% co-supervision

Project: Elektronenmikroskopie komplexer Fluide

PhD: Anja Wehling (October 1998 – June 2001) – 30% co-supervision

Project: The Dynamics of L_3 -Phases

MASTER STUDENTS

Master Student: Laura Carballido (March – September 2019)
Project: Membrane Emulsification & Foaming

Master Student: Anastasia Tsianaka (November 2018 – April 2019), co-supervision with

Dr. Schmid, M & H

Project: Development of new filter media and coalesce materials: synthesis and

characterisation of PVA-based polymer foams

Master Student: *Martin Hamann* (October 2018 – May 2019), co-supervision with Dr.

Quell, BASF

Project: High Internal Phase Emulsions as Templates for the Synthesis of Water

Expandable Polystyrene

Master Student: *Philipp Menold* (May 2018 – February 2019), co-supervision with Prof.

Cölfen, University of Konstanz

Project: Mineral Plastic Foams

Master Student: Friederike Dehli (April – October 2018), co-supervision with Dr. Southan,

Fraunhofer Institute Stuttgart

Awards: Award of the GDCh Fachgruppe Chemie des Waschens 2019

Award of the "Vereinigung von Freunden der Universität Stuttgart" for best

MSc Thesis of the Faculty of Chemistry 2018

Project: Synthesis and Characterisation of Hydrogelfoams with defined Pore Sizes

Master Student: Tamara Schad (September 2017 – February 2018)
Project: On the importance of H-bonds for foam stability
Master Student: Viktoria Pfeiffer (April – September 2014)

Project: Analysis of water-in-diesel emulsions and their phase separation via

coalescence (cooperation M+H)

Master Student: Yang Xu (March – September 2014)

Project: The influence of a fatty acid or a gelator on the phase behavior of a

microemulsion: a ²H-NMR study

Master Student: *Violaine Gerard* (April – October 2013) Project: Microemulsions with Ionic Liquids

Master Student: Aggeliki Avramidou (March – September 2013)

Project: Foamed Emulsions as Template for the Synthesis of Polystyrene Foams

Master Student: Florian Waizenhöfer (February – August 2013)
Project: Metallic Nanoparticles via o/w-Microemulsions

Master Student: *Renate Tessendorf* (March 2006 – February 2007)

Project: Microemulsions as Templates for New High Surface Area Polymers

DIPLOMA STUDENTS

Diploma Student: *Harun Bilgili* (February – August 2015)

Project: Has the System H₂O – [bmim]PF₆ – TX-100 a Nanostructure?

Diploma Student: *Ingo Reinold* (January – September 2014)

Project: Methods to investigate phase diagrams of binary water-surfactant systems

Diploma Student: *Kathrin Schellmann* (September 2013 – April 2014)

Project: Properties of foams stabilized by aqueous solutions of dodecyl

dimethylamine oxide

Diploma Student: *Matthias Bürger* (August 13 – February 2014)

Project: Structural Study of Ternary Systems consisting of Water – Ionic Liquid –

Triton-X 100

Diploma Student: *Christian Schlick* (July 2012 – Jan 2013)

Project: Metallic Nanoparticles via Microemulsions: Synthesis and Characterisation

Diploma Student: Fabian Kleeberg (May – Nov 2012)

Project: Influence of pH and Temperature on Stability and Activity of Enzymes in

Microemulsions

Diploma Student: *Julia Kupka* (April – Oct 2012)

Project: Studying lipases in complex reaction media via circular dichroism

Diploma Student: Adrian Geyer (April – Oct 2012)
Project: Polymerisation of Foamed Emulsions

Diploma Student: *Cornelia Englert* (September 2011 – March 2012)

Project: Grenzflächenenergetische und –kinetische Einflüsse auf die Adhäsion von

Polyester-Pulverlackbeschichtungen auf anodisiertem Aluminium

Diploma Student: *Jan Thater* (August 2011 – February 2012) Project: Complex reaction media for enzymatic catalysis

Diploma Student: Anne Steudle (April – September 2011)

Project: Influence of the surfactant on stereoselective, enzyme-catalyzed reactions in

microemulsions

Diploma Student: *Debora Schamel* (March – September 2011)

Project: Microfluidics for the synthesis of emulsion-stabilised foams with tuneable

pore sizes

Diploma Student: Oliver Martin (April – October 2010) – 50% co-supervision

Project: Synthesis and Characterisation of Nanoscale Platinum/Substrate-Catalysts

via Microemulsions

Diploma Student: *Dörte Lösch* (April – September 2010)

Project: Stability of Foam Films and Foams in the Presence of Antifoamers

Diploma Student: Alexandra Hălmăgean (February – September 2010) – 20% co-supervision Einfluß v. Tensiden auf Transaminase-katalysierte Synthese chiraler Amine **Diploma Student:** Michaela Laupheimer (October 2009 – March 2010) – 20% co-supervision

Project: Enzymatische Katalyse in Mikroemulsionen

Diploma Student: *Valeria Gärtner* (January – July 2007)

Project: Properties of New Terpene- and Inositol-Based Surfactants

Diploma Student: *Renate Tessendorf* (July 2005 – February 2006)

Project: Synthese und Charakterisierung neuer Phosphinoxid-Derivate und deren

Mikroemulsionen

Diploma Student: *Muhamet Sehabi* (November 2002 – May 2003)

Project: Statische und dynamische Oberflächenspannungen binärer Wasser-Tensid-

Systeme: Ionische und nichtionische Tenside im Vergleich

Diploma Student: *Judith Schlarmann* (January – July 2001)

Project: Gewinnung und Charakterisierung grenzflächenreiner Tenside **Diploma Student:** Christian Frank (October 2000 – May 2001) – 30% co-supervision

Project: Mikroemulsionen mit amphiphilen Blockcopolymeren: Unterdrückung der

lamellaren Phase

MASTER OF EDUCATION STUDENTS

MSc of Education: *Benedetta de Bergolis* (August – December 2015)

Project: How to control window formation of monodisperse polystyrene foams?

BACHELOR STUDENTS

Bachelor Student: *Manfred Stenzel* (December 2019 – April 2020)

Project: Mechanical Properties of Styrene-Based Polymer Foams

Bachelor Student: *Sophia Botsch* (April – August 2019)

Project: Influence of the surfactant concentration on the structure of porous

polystyrene synthesized via emulsion templating

Bachelor Student: Sabrina Beyer (April – August 2018)

Project: Influence of the monomer/crosslinker ratio on the structure of porous

polystyrene synthesized via emulsion templating

Bachelor Student: *David Moser* (October 2017 – March 2018)

Project: Gelling lyotropic liquid crystals of the system water – Genapol LA070 with

various gelators

Bachelor Student: *Michael Herbst* (September 2017 – January 2018)

Project: Synthesis and morphological characterization of Cellulose-reinforced

monodisperse Chitosan foams

Bachelor Student: *Davide Ranieri* (April – July 2017)

Project: On the importance of H-bonds for foam stability **Bachelor Student:** *Christian Köck* (October 2016 – January 2017)

Project: Foamed styrene-in-water emulsions as template for PS foams: influence of

the cross-linker DVB and the initiator KPS on the foam structure

Bachelor Student: Anastasia Tsianaka (September – December 2016)

Project: Synthesis and characterisation of polydisperse porous chitosan via foam

templating

Bachelor Student: *Martin Hamann* (April – July 2016)

Project: On the importance of H-bonds for foam stability **Bachelor Student:** *Boshra Kachmar* (November 2015 – March 2016)

Project: Composition of coexisting phases in two-phase & three-phase systems

Bachelor Student: *Jeffrey Appiah* (May – September 2015)

Project: Formation of Microemulsions in the System H₂O-Styrene-Hypermer2296

Bachelor Student: *Tamara Schad* (April – August 2015)

Project: Rheology and Surface Tensions of Chitosan Solutions in the Presence and

Absence of Surfactant

Bachelor Student: *Julian Ortner* (Oct 2014 – Feb 2015)

Project: Properties of foams stabilized by aqueous solutions of an anionic alkyl

ethyleneoxide carboxylate: a pH-study

Bachelor Student: *Robin Himmelmann* (April – July 2013)

Project: Reduction of Nitrophenol with mono- und bimetallic Nanoparticles

Bachelor Student: *Claudia Dillmann* (April – July 2012)

Project: Influence of sugar and sugar-based surfactants on enzyme catalyzed

reactions

Bachelor Student: *Kristina Jovic* (April – July 2012)

Project: Studying Phase Behavior of Gelled Microemulsions

Bachelor Student: *Rüya Duran* (April – July 2011)

Project: Physico-chemical characterization of microemulsions and emulsified

microemulsions from phytantriol and tetradecane

Bachelor Student: Florian Waizenhöfer (March – April 2011)
Project: Mechanisms of foam-controlling surfactants

UNDERGRADUATE & GRADUATE TRAINEES

Graduate (BSc): *Clémence Aubert* (November 2019 – January 2020)

Project: Construction of passive sample tubes for NO₂ measurements (supervision

by MSc Chacón)

Graduate (MSc): *Philipp Menold* (April – November 2019)

Project: Mineral Plastic Foams

Graduate (BSc): *Styliani Varytimiadou* (October – November 2018)

Project: Synthesis of macroporous BDMA-based polymers via polymerization of

foamed emulsions

Graduate (BSc): *Benjamin Kordes* (October – November 2018)

Project: Emulsion Templating: Influence of the initiator concentration on the

structure of porous polystyrene

Graduate (BSc): *Martin Hamann* (April – July 2018)

Project: Synthesis of macroporous BDMA-based polymers via polymerization of

foamed emulsions

Graduate (BSc): Esra Öztürk (October 2017 – March 2018)

Project: Synthesis of macroporous BDMA-based polymers via polymerization of

foamed emulsions

Graduate (BSc): *Friederike Dehli* (November 2017 – February 2018)

Project: Cross-linking of biopolymers with bio-based crosslinkers: from hydrogel to

polymer foam

Graduate (BSc): Tamara Schad (February – April 2017)
Project: Surface Activity of Chitosan Solutions
Graduate (BSc): Marco Grunwald (January – March 2017)

Project: Successive formation of a gel network and a lyotropic liquid crystal: does

the chronology play a role?

Graduate (MSc): *Siddhartha Subramanian* (September – December 2016)
Project: On how intersurfactant hydrogen bonds affect foam stability

Graduate (MSc): *Mahsa Mafi* (July – September 2016)

Project: Synthesis of Propylene Fumarate Dimethacrylate

Graduate (BSc): *Matthias Hermann* (June – July 2016)
Project: Calibration of Microfluidic Chips

Graduate (BSc): *Dorothea Häussermann* (November 2015 – March 2016)

Project: Static and dynamic surface tensions of aqueous solutions of nonionic

surfactants

Graduate (BSc): Carina Schellenberg (October 2015 – March 2016)

Project: Drying hydrogels and determining the swelling behaviour of aerogels

Graduate (BSc): *Claudia Osorio* (October – December 2015)

Project: Calibration of Microfluidic Chips

Graduate (Dipl): *Ingo Reinold* (October 2014 – December 2015)

Project: Methods to investigate phase diagrams of binary water-surfactant systems

Graduate (BSc): *Marian Cors* (July – September 2015)
Project: Stability of Styrene-in-Water Foamulsions

Graduate (BSc): *Esra Oruc* (May – September 2015)

Project: Synthesis of an Ionic Liquid and Determination of a $T(\gamma)$ - Phase Diagram

Graduate (BSc): Florian Reinhardt (May – June 2015)
Project: Calibration of two Microfluidic Chips

Graduate (BSc): *Viktoria Pfeiffer* (December 2013 – January 2014)

Project: Formulation of a low efficiency H₂O – oil – TX-100 µE as a reference for

the system $H_2O - [BMIm]PF_6 - TX-100$

Graduate (BSc): *Sabina Jakobi* (September – October 2013)

Project: Phase Behavior of New Surfactants for IL-Water-Microemulsions

Graduate (BSc): *Rüya Duran* (April – May 2013)

Project: Synthesis of Nanoparticles via w/o-Microemulsions

Graduate (BSc): *Moritz Heuchel* (January – March 2013)

Project: Reduction of Nitrophenol with Pt/Bi-Nanoparticles **Graduate (BSc):** Dennis Beierlein (January – February 2013)

Project: Conformation of the Enzyme Cal B in Microemulsion Phases

Graduate (BSc): *Olga Fysun* (December – February 2013)

Project: Phase Behavior of IL-containing Microemulsions **Graduate (BSc):** Swen Lang (November 2012 – January 2013)

Project: Distribution of the Enzyme Cal B in Microemulsion Phases

Graduate (BSc): *Erna Muks* (November 2012 – January 2013)

Project: Determination of a Phase Diagram by Measuring Transmission and

Comparison with the Classical Method *Florian Waizenhöfer* (Oct – Nov 2012)

Graduate (BSc): Florian Waizenhöfer (Oct – Nov 2012)
Project: Temperature Dependence of Foam Properties

Graduate (BSc): Aggeliki Avramidou (Oct – Nov 2012)

Graduate (DSC). Aggenni Avramuou (Oct – 1407 2012)

Project: Pt- and Pt/Pb Nanoparticles – Synthesis and Catalytic Studies

Undergraduate: *Jacob Ewert* (Dec 2011 – Feb 2012)

Project: Set-Up of a Light Scattering Unit for the Undergraduate Laboratories

Undergraduate: Adrian Geyer (Sep – Nov 2011)

Project: Interactions between a Low Foaming Surfactant and Alkyl Polyglucoside

Solutions

Undergraduate: *Christian Schlick* (Sep – Nov 2011)

Project: Synthesis and catalytic activity of intermetallic nanoparticles

Undergraduate: *Dominik Stoiber* (March – April 2011)

Project: Bicontinuous Microemulsions as Reaction Medium for Biotransformations

Undergraduate: *Sarioglu Oguz* (March – April 2011)

Project: Mikroemulsionen aus biologisch abbaubaren Komponenten

Undergraduate: Raphael Marx (September – October 2010)
Project: Mikroemulsionen mit Ionischen Flüssigkeiten

Undergraduate: *Harun Bilgili* (June – August 2010)

Project: Mikroemulsionen mit Ionischen Flüssigkeiten

Undergraduate: *Jan Thater* (June – August 2010)

Project: Einfluß v. Tensiden auf Transaminase-katalysierte Synthese chiraler Amine

Final Year Student: *Stephen Donoghue* (January – May 2010) – 50% co-supervision Project: Synthesis of TiO₂ for DSSCs via Templating Microemulsions

Final Year Student: *James Egan* (January – May 2010) – 50% co-supervision Project: Manufacture of Graded Expanded Polystyrene Foams

Undergraduate: *Johanna Spörl* (December 2009 – January 2010)

Project: Transaminase-katalysierte Reaktionen in Mikroemulsionen: Phasenverhal-

ten von Reaktanden

Graduate: *Christian Rabe* (April – July 2009)

Project: Microemulsions as Templates for New Materials

Undergraduate: *Dörte Lösch* (March – July 2009)

Project: Properties of Foams

Final Year Student: *Ciara O'Byrne* (January – May 2009)

Project: Partition Coefficients of Surfactants between Water and *n*-Alkanes

Undergraduate: Axel Möller (May – July 2008)
Project: Acoustic Properties of Foams

Final Year Student: *Mark Jenkinson* (January – May 2008)

Project: Coalescence of Foams

Final Year Student: *John Flahavan* (January – May 2008)

Project: CMC's of Pure, Impure, and Technical Grade Surfactants

Final Year Student: *Anne Duggan* (January – May 2008)

Project: Nanoparticles for Fuel Cells

Final Year Student: Andrea Kelly (January – April 2007)
Project: Phase Diagrams of Microemulsions
Final Year Student: Caroline Green (January – April 2007)

Project: Viscosity of Polymer Solutions

Final Year Student: *Caroline Boivin* (January – April 2007)

Project: Partition Coefficients of Surfactants between Water and Oil

Final Year Student: *William Hallinan* (January – April 2007)

Project: Molecular Dynamic Simulations of Surfactant Monolayers

Final Year Student: David Prendergast (January – April 2007)
Project: Specific Conductivities of Surfactant Solutions
Final Year Student: Enda Carey (September – December 2005)
Project: Purification and Surface Tensions of Surfactants
Final Year Student: Tony Peakin (September – December 2005)

Project: New Practicals for the 2nd Year Chemistry Laboratory

Final Year Student: *Justine Butler* (September – December 2005)

Project: Powder Rheology and Suspensions

Undergraduate: *Valeria Gärtner* (September – November 2005)

Project: Schaum-Fraktionierung und Oberflächenspannung von Tensiden

Undergraduate: *Barbara Hiemenz* (August 2005)
Project: Surface Tension Measurements

Undergraduate: *Natalie Buchavzov* (January – December 2004)

Project: Charakterisierung und Eigenschaften nichtionischer Tenside

Undergraduate: Renate Tessendorf (January – December 2004) – 50% co-supervision Project: Neue amphiphile Phosphinoxide: Synthese, Reinigung, Charakterisierung

Undergraduate: *Judith Schlarmann* (February – April 2000)

Project: Oberflächenspannungen von Wasser-Tensid-Mischungen