

# MARCUS WECK

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## EDUCATIONAL BACKGROUND

1998 – 2000 *Harvard University* – Postdoctoral Fellow, Chemistry  
1995 – 1998 *California Institute of Technology* – Ph.D., Chemistry  
1988 – 1994 *University of Mainz* – M.Sc. (Diploma), Chemistry  
1991 – 1992 *University of California, Irvine* – Exchange Student, Chemistry

## RESEARCH AND PROFESSIONAL EXPERIENCE

2007 – present	<u>New York University</u> Molecular Design Institute and Department of Chemistry · Director, NYU MRSEC · Professor · Associate Director, Molecular Design Institute · Associate Professor	New York, NY 2017 – 2021 2009 – present 2007 – present 2007 – 2009
2000 – 2007	<u>Georgia Institute of Technology</u> School of Chemistry and Biochemistry · Associate Professor · Assistant Professor	Atlanta, GA 2006 – 2007 2000 – 2006
1998 – 2000	<u>Harvard University</u> Research Advisor: Prof. George M. Whitesides · <i>Postdoctoral Research</i> . Mimicking biological systems using mesoscale self-assembly.	Cambridge, MA
1995 – 1998	<u>California Institute of Technology</u> Research Advisor: Prof. Robert H. Grubbs · <i>Ph.D. Research</i> . Olefin metathesis for the synthesis of supramolecular structures.	Pasadena, CA
1993 – 1994	<u>University of Mainz</u> Research Advisor: Prof. Helmut Ringsdorf · <i>Master's Research</i> . Molecular recognition at the air-water interface, in water and on solid supports.	Mainz, Germany
1992	<u>Max Planck Institute of Polymer Research</u> · <i>Summer Internship</i> . Synthesis of phthalocyanines containing germanium and silicon.	Mainz, Germany
1991 – 1992	<u>University of California, Irvine</u> Research Advisor: Prof. Fraser Armstrong · <i>Undergraduate Research</i> . Voltammetric characterization of an iron-sulfur [4Fe-4S] cluster in ferredoxin III from <i>Desulfovibrio africanus</i> .	Irvine, CA

**AWARDS AND FELLOWSHIPS**

2019	Golden Dozen Teaching Award, College of Arts and Science, NYU
2014	Friedrich Wilhelm Bessel-Award of the Humboldt Foundation
2013	Fellow of the Polymer Division of the ACS
2007	Tetrahedron Most Cited Paper 2004-2007 Award
2006	Sigma Xi Young Faculty Award
2006	CETL/BP Junior Faculty Teaching Excellence Award, Georgia Tech
2005	Camille Dreyfus Teacher-Scholar Award
2005	Alfred P. Sloan Research Fellow
2004 – 2007	DuPont de Nemours and Company Young Professor Award
2004 – 2006	Blanchard Assistant Professor Fellowship
2003	NSF CAREER Award
2002	Ralph E. Powe Junior Faculty Enhancement Award
2002 – 2004	3M Non-Tenured Faculty Award
1998	Postdoctoral Fellowship of the German Academic Exchange Service (DAAD)
1991	Student Exchange Fellowship of the German Academic Exchange Service (DAAD)

**NAMED LECTURES**

- (1) April 18, 2016 Garland Lecture (<http://www.tamuk.edu/artsci/chemistry/information/Garland%20Lecture.html>) *Directed Self-Assembly and Crystallization of Colloids* Texas A&M, Kingsville, TX

**PUBLICATIONS** (#1 – #16, student and postdoctoral, \*indicates corresponding author(s))

177. "Cost and Time Effective Lithography of Reusable Millimeter Size Bone Tissue Replicas With Sub-15 nm Feature Size on A Biocompatible Polymer" Xiangyu Liu, Alessandra Zanut, Martina Sladkova-Faure, Liyuan Xie, Marcus Weck, Xiaorui Zheng, Elisa Riedo,\* and Giuseppe Maria de Peppo\* *Adv. Funct. Mater.* **2021**, (DOI: 10.1002/adfm.202008662)
176. "Top-down Heterogeneous Microparticle Engineering using Capillary Assembly of Liquid Particles" Cicely Shillingford, Brandon M. Kim, and Marcus Weck\* *ACS Nano* **2021**, *15*, 1640-1651 (DOI: 10.1021/acsnano.0c09246).
175. "Two-Dimensional (2D) or Quasi-2D Superstructures from DNA-Coated Colloidal Particles" Mingzhu Liu, Xiaolong Zheng, Veronica Grebe, Mingxin He, David J Pine and Marcus Weck\* *Angew. Chem. Int. Ed.* **2021**, *accepted* (DOI: ).
174. "Quantifying Patterns in Optical Micrographs of One- and Two-Dimensional Anisotropic Particle Assemblies" Veronica Grebe, Mingzhu Liu and Marcus Weck\* *Soft Matter* **2020**, *16*, 10900-10909 (DOI: 10.1039/D0SM01692F).
173. "Synthesis and Aqueous Self-assembly of ABCD Bottlebrush Block-Copolymers" Eman Ahmed, C. Tyler Womble and Marcus Weck\* *Macromolecules* **2020**, *53*, 9018-9025 (DOI: 10.1021/acs.macromol.0c01785).

172. "Tunable Assembly of Hybrid Colloids Induced by Regioselective Depletion" Mingzhu Liu, Xiaolong Zheng, Veronica Grebe, David J. Pine and Marcus Weck\* *Nat. Mater.* **2020**, *19*, 1354-1361 (DOI: 10.1038/s41563-020-0744-2).
171. "Customized Chiral Colloids" Mingzhu Liu, Fangyuan Dong, Nicolle S. Jackson, Michael D. Ward\* and Marcus Weck\* *J. Am. Chem. Soc.* **2020**, *142*, 16528-16532 (DOI: 10.1021/jacs.0c07315).
170. "Reversible Photoswitching in Poly(2-oxazoline) Nanoreactors" Michael Kuepfert, Peiyuan Qu, Aaron E. Cohen, Caroline B. Hoyt, Christopher W. Jones,\* and Marcus Weck\* *Chem. Eur. J.* **2020**, *26*, 11776-11781 (DOI: 10.1002/chem.202000179).
169. "Assembly of Shape-tunable Colloidal Dimers in a Dielectrophoretic Field" Fangyuan Dong, Mingzhu Liu, Veronica Grebe, Michael D. Ward\*, and Marcus Weck\* *Chem. Mater.* **2020**, *32*, 6898-6905 (DOI: 10.1021/acs.chemmater.0c01947).
168. "Capillary Assembly of Liquid Particles" Cicely Shillingford, Brandon M. Kim, and Marcus Weck\* *Small* **2020**, *16*, 1907523 (DOI: 10.1002/smll.201907523).
167. "Synthesis,  $\omega$ -Functionalization, and Reversible Light-Mediated Structural Disruption of an Azobenzene-Containing Helical Poly(isocyanide)" Scott K. Pomarico, Chengyuan Wang, and Marcus Weck\* *Macromol. Rapid Commun.* **2020**, *41*, 1900324 (DOI: 10.1002/marc.201900324).
166. "Sub-10 nm Resolution Patterning of Pockets for Enzymes Immobilization with Independent Density and Quasi-3D Topography Control" Xiangyu Liu, Mohit Kumar, Annalisa Calò, Edoardo Albisetti, Xiaorui Zheng, Kylie B. Manning, Elizabeth Elacqua, Marcus Weck, Rein Ulijn, and Elisa Riedo\* *ACS Appl. Mater. Inter.* **2019**, *11*, 41780-41790 (DOI: 10.1021/acami.9b11844).
165. "Dislocation Generation by Microparticle Inclusions" Xiaodi Zhong, Alexander Shtukenberg, Mingzhu Liu, Isabel Olsen, Marcus Weck, Michael D. Ward\* and Bart Kahr\* *Cryst. Growth Des.* **2019**, *19*, 6649-6655 (DOI: 10.1021/acs.cgd.9b01041).
164. "High-throughput Enzyme Nanopatterning" Xiangyu Liu, Mohit Kumar, Annalisa Calò, Edoardo Albisetti, Xiaouri Zheng, Kylie B. Manning, Elisabeth Elacqua, Marcus Weck, Rein Ulijn, and Elisa Riedo\* *Faraday Discuss.* **2019**, *219*, 33-43 (DOI: 10.1039/C9FD00025A).
163. "Synthesis of a Heterotelechelic Helical Poly(methacrylamide) and its Incorporation into a Supramolecular Triblock Copolymer" Ru Deng, Margarita Milton, Scott K. Pomarico and Marcus Weck\* *Polym. Chem.* **2019**, *10*, 5087-5093 (DOI: 10.1039/C9PY01047E).
162. "Controlled Colloidal Crystal Packing via Templated Capillary Assembly" Cicely Shillingford, Veronica Grebe, Angus McMullen, Jasna Brujic\*, and Marcus Weck\* *Langmuir* **2019**, *35*, 12205-12214 (DOI: 10.1021/acs.langmuir.9b02124).
161. "Compartmentalized Nanoreactors for One-pot Redox-driven Transformations" Peiyuan Qu, Michael Kuepfert, Steffen Jockusch, and Marcus Weck\* *ACS Catal.* **2019**, *9*, 2701-2706 (DOI: 10.1021/acscatal.8b04667).
160. "Synthesis and Folding Behavior of Poly(*p*-phenylene vinylene)-based  $\beta$ -sheet Polychromophores" Elizabeth Elacqua, Geoffrey T. Geberth, David A. Vanden Bout\*, and Marcus Weck\* *Chem. Sci.* **2019**, *10*, 2144-2152 (DOI: 10.1039/c8sc05111a).
159. "Multi-compartment Polymeric Nanoreactors for Non-orthogonal Cascade Catalysis" C. Tyler Womble, Michael Kuepfert, Aaron E. Cohen, and Marcus Weck\* *Macromol. Rapid Commun.* **2019**, *40*, 1800580 (DOI: 10.1002/marc.201800580).

158. "Shell Cross-linked Micelles as Nanoreactors for Enantioselective Three-Step Tandem Catalysis" Michael Kuepfert, Aaron E. Cohen, Olivia Cullen, and Marcus Weck\* *Chem. Eur. J.* **2018**, *24*, 18648-18652 (DOI: 10.1002/chem.201804956).
157. "Synthesis of Sheet-coil-helix and Coil-sheet-helix Triblock Copolymers by Combining ROMP with Anionic Polymerization" Scott K. Pomarico, Diane S. Lye, Elizabeth Elacqua\*, and Marcus Weck\* *Polym. Chem.* **2018**, *9*, 5655-5659 (DOI: 10.1039/C8PY01361F).  
Selected as paper of the months: *Polymer Chemistry*
156. "Reversible Morphology Switching of Colloidal Particles" Mingzhu Liu, Xiaolong Zheng, Fangyuan Dong, Michael D. Ward and Marcus Weck\* *Chem. Mater.* **2018**, *30*, 6903-6907 (DOI: 10.1021/acs.chemmater.8b03227)
155. "Molecular Recognition in the Colloidal World" Elizabeth Elacqua, Xiaolong Zheng, Cicely Shillingford, Mingzhu Liu, and Marcus Weck\* *Acc. Chem. Res.* **2017**, *50*, 2756-2766 (DOI: 10.1021/acs.accounts.7b00370).
154. "Assembly of Colloids via Reversible Host-Guest Interactions" Elizabeth Elacqua, Xiaolong Zheng, and Marcus Weck\* *ACS Macro Lett.* **2017**, *6*, 1060-1065 (DOI: 10.1021/acsmacrolett.7b00539).
153. "Supramolecular Multiblock Copolymers Featuring Complex Secondary Structures" Elizabeth Elacqua, Kylie B. Manning, Diane Lye, Scott K. Pomarico, Federica Morgia, and Marcus Weck\* *J. Am. Chem. Soc.* **2017**, *139*, 12240-12250 (DOI: 10.1021/jacs.7b06201).
152. "Synthesis of Well-Defined Bifunctional Newkome-Type Dendrimers" Elizabeth A. Kaufman, Rossella Tarallo, Elizabeth Elacqua, Tom P. Carberry and Marcus Weck\* *Macromolecules* **2017**, *50*, 4897-4905 (DOI: 10.1021/acs.macromol.7b01035).
151. "ABC Supramolecular Triblock Copolymer by ROMP and ATRP" Diane S. Lye, Yan Xia, Madeleine Z. Wong, Yufeng Wang, Mu-Ping Nieh\*, and Marcus Weck\* *Macromolecules* **2017**, *50*, 4244-4255 (DOI: 10.1021/acs.macromol.7b00169).
150. "End-Functionalized Palladium SCS-Pincer Polymers via Controlled Radical Polymerizations" Diane S. Lye, Aaron E. Cohen, Madeleine Z. Wong, and Marcus Weck\* *Macromol. Rapid Commun.* **2017**, *38*, 1700174 (DOI: 10.1002/marc.201700174).
149. "Shape-Shifting Patchy Particles" Xiaolong Zheng, Mingzhu Liu, Mingxin He, David J. Pine,\* and Marcus Weck\* *Angew. Chem. Int. Ed.* **2017**, *56*, 5507-5511 (DOI: 10.1002/anie.201701456).  
Highlighted as 'Hot Paper' by *Angewandte Chemie*.
148. "Coil-Helix and Sheet-Helix Block Copolymers via Macroinitiation from Telechelic ROMP Polymers" Elizabeth Elacqua, Anna Croom, Diane S. Lye, and Marcus Weck\* *J. Polym. Sci. A: Polym. Chem.* **2017**, *55*, 2991-2998 (DOI: 10.1002/pola.28542).
147. "The Intriguing Journey of gH625-Dendrimers" Annarita Falanga, Lucia Lombardi, Rossella Tarallo, Gianluigi Franci, Emiliana Perillo, Luciana Paolmba, Massimiliano Galdiero, Diego Pontoni,\* Giovanna Fragneto,\* Marcus Weck,\* Stefania Galdiero\* *RSC Adv.* **2017**, *7*, 9106-9114 (DOI: 10.1039/c6ra28405a).
146. "Generation Effect of Newkome Dendrimer on Cellular Uptake" Elizabeth A. Kaufman, Rossella Tarallo, Anarita Falanga, Stefania Galdiero\*, and Marcus Weck\* *Polymer* **2017**, *113*, 67-73 (DOI: 10.1016/j.polymer.2017.02.040).
145. "Bifunctional Polymer Architectures for Cooperative Catalysis: Tunable Acid-Base Polymers for the Aldol Condensation" Caroline B. Hoyt, Li-Chen Lee, Aaron E. Cohen, Marcus Weck, Christopher W. Jones\* *ChemCatChem* **2017**, *9*, 137-143 (DOI: 10.1002/cctc.201601104).

144. "Supramolecular Diblock Copolymers Featuring Well-defined Telechelic Building Blocks" Elizabeth Elacqua, Anna Croom, Kylie B. Manning, Scott K. Pomarico, Diane Lye, Lauren Young, and Marcus Weck\* *Angew. Chem. Int. Ed.* **2016**, *55*, 15873-15878 (DOI: 10.1002/anie.201609103).
143. "Supramolecular Helix-Helix Block Copolymers" Anna Croom, Kylie Manning, and Marcus Weck\* *Macromolecules* **2016**, *49*, 7117-7128 (DOI: 10.1021/acs.macromol.6b01410).
142. "Physicochemical Characterization of Three Fiber-Reinforced Epoxide-based Composites for Dental Applications" Anderson J. Bonon, Marcus Weck, Estevam A. Bonfante\*, Paulo G. Coelho\* *Mater. Sci. Eng. C* **2016**, *C 69*, 905–913 (DOI: 10.1016/j.msec.2016.07.002).
141. "Redox-Responsive Viologen-Mediated Self-Assembly of CB[7]-Modified Patchy Particles" Farah Benyettou, Xiaolong Zheng, Elizabeth Elacqua, Yu Wang, Parastoo Dalvand, Zouhair Asfari, John-Carl Olsen, Na'il Saleh, Mourad Elhabiri, Marcus Weck\* and Ali Trabolsi\* *Langmuir* **2016** *32*, 7144-7150.
140. "Thermal Regulation of Colloidal Materials Architecture through Orthogonal Functionalizable Patchy Particles " Xiaolong Zheng, Yufeng Wang, Yu Wang, David J. Pine,\* and Marcus Weck\* *Chem. Mater.* **2016**, *28*, 3984-3989.
139. "End-Group Functionalization and Post-Polymerization Modification of Helical Poly(isocyanide)s" Anna Croom, Rossella Tarallo, and Marcus Weck\* *J. Polym. Sci. A: Polym. Chem.* **2016**, *54*, 2766-2773.
138. "Micelle-based Nanoreactors Containing Ru-porphyrin for the Epoxidation of Terminal Olefins in Water" Jie Lu, Linus Liang, and Marcus Weck\* *J. Mol. Cat. A Chem.* **2016**, *417*, 122-125 (DOI: 10.1016/j.molcata.2016.02.033).
137. "An Acid-base Bifunctional Shell Cross-Linked Micelle Nanoreactor for One-pot Tandem Reactions" Li-Chen Lee, Jie Lu, Marcus Weck\*, and Christopher W. Jones\* *ACS Catal.* **2016**, *6*, 784-787.
136. "Characterization of Molecular Association of Poly(2-oxazoline)s-based Micelles with Various Epoxides and Diols via the Flory-Huggins Theory: A Molecular Dynamics Simulation Approach" Byeong Jae Chun, Jie Lu, Marcus Weck, and Seung Soon Jang\* *Phys. Chem. Chem. Phys.* **2015**, *17*, 29161-29170.
135. "Compartmentalization of Non-orthogonal Catalytic Transformations for Tandem Catalysis" Jie Lu, Jonas Dimroth and Marcus Weck\* *J. Am. Chem. Soc.* **2015**, *137*, 12984-12989 (DOI: 10.1021/jacs.5b07257).  
Highlighted in *Scientific American* **2015**.
134. "Synthesis and Liquid Crystalline Behavior of Bulky Poly(methacrylamide)s" Kylie B. Manning, Alexander G. Shtukenberg, Shane M. Nichols, Bart Kahr\*, and Marcus Weck\* *J. Polym. Sci. A: Polym. Chem.* **2015**, *53*, 2563-2568.
133. "Synthetic Strategies Toward DNA-Coated Colloids that Crystallize" Yufeng Wang, Yu Wang, Xiaolong Zheng, Étienne Ducrot, Myung-Goo Lee, Gi-Ra Yi, Marcus Weck,\* and David J. Pine\* *J. Am. Chem. Soc.* **2015**, *137*, 10760-10766.  
ACS Editors' Choice article for 8/12/2015
132. "Crystallization of DNA-coated Colloids" Yu Wang, Yufeng Wang, Xiaolong Zheng, Étienne Ducrot, Jeremy S. Yodh, Marcus Weck,\* and David J. Pine\* *Nat. Commun.* **2015**, *6*, 7253 DOI: 10.1038/ncomms8253.  
Highlighted in *Nature* **2015**, *534*, 9.

131. "Simultaneous Control over Monomer Sequence and Molecular Weight using the RAFT Process" Niels ten Brummelhuis\* and Marcus Weck *ACS Symp. Ser.* **2015**, 269-282.
130. "Supramolecular Semiconductor Block Copolymers via ROMP" Elizabeth Elacqua and Marcus Weck\* *Chem. Eur. J.* **2015**, *21*, 7151-7158.
129. "Co-Salen Complexes as Catalysts for the Asymmetric Henry Reaction - Reversed Enantioselectivity through Simple Ligand Modification" Jonas Dimroth and Marcus Weck\* *RSC Advanced* **2015**, *5*, 29108-29113 (DOI: 10.1039/c4ra16931j).
128. "Patchy Particle Packing under Electric Fields" Pengcheng Song, Yufeng Wang, Yu Wang, Andrew D. Hollingsworth, Marcus Weck,\* David J. Pine,\* and Michael D. Ward\* *J. Am. Chem. Soc.* **2015**, *137*, 3069-3075.
127. "Membranotropic Peptide-Functionalized Poly(lactide)-graft-Poly(ethylene glycol) Brush Copolymers for Intracellular Delivery" Dorothee E. Borchmann, Rossella Tarallo, Sarha Avendano, Annarita Falanga, Tom P. Carberry, Stefania ,\* and Marcus Weck\* *Macromolecules* **2015**, *48*, 942-949.
126. "Elucidation of the interaction mechanism with liposomes of gH625-peptide functionalized dendrimers" Annarita Falanga, Rossella Tarallo, Tom P. Carberry, Massimiliano Galdiero, Marcus Weck, and Stefania Galdiero\* *PLoS ONE* **2014**, *9*, e112128.
125. "Post – Polymerization Modification of Block Copolymers" Joy Romulus, John T. Henssler, and Marcus Weck\* *Macromolecules* **2014**, *47*, 5437-5449.
124. "Engineering Orthogonality in Supramolecular Polymers: From Simple Scaffolds to Complex Materials" Elizabeth Elacqua, Diane S. Lye, and Marcus Weck\* *Acc. Chem. Res.* **2014**, *47*, 2405-2416.
123. "Three-Dimensional Lock and Key Colloids" Yu Wang, Yufeng Wang, Xiaolong Zheng, Gi-Ra Yi, Stefano Sacanna,\* David J. Pine,\* and Marcus Weck\* *J. Am. Chem. Soc.* **2014**, *136*, 6866-6869.
122. "Intramolecular Folding of Triblock Copolymers via Quadrupole Interactions Between Poly(styrene) and Poly(pentafluorostyrene) Blocks" Jie Lu, Niels ten Brummelhuis, and Marcus Weck\* *Chem Commun.* **2014**, *50*, 6225-6227.
121. "RAFT Polymerization of Alternating Styrene-Pentafluorostyrene Copolymers" Niels ten Brummelhuis and Marcus Weck\* *J. Polym. Sci. A: Polym. Chem.* **2014**, *52*, 1555-1559.
120. "<sup>13</sup>C NMR Spectroscopy for the Quantitative Determination of Compound Ratios and Polymer End-Groups" Doug Otte, Dorothee E. Borchmann, Chin Lin, Marcus Weck,\* and Keith Woerpel\* *Org. Lett.* **2014**, *16*, 1566-1569.
119. "Bio'-macromolecules: Polymer-Protein Conjugates as Emerging Scaffolds for Therapeutics" Dorothee E. Borchmann, Tom P. Carberry, and Marcus Weck\* *Macromol. Rapid Commun.* **2014** *35*, 27-43.
118. "Patchy Particle Self-Assembly via Metal Coordination" Yufeng Wang, Andrew D. Hollingsworth, SiKyung Yang, Sonal Patel, David J. Pine,\* and Marcus Weck\* *J. Am. Chem. Soc.* **2013**, *135*, 14064-14067.
117. "Single-Chain Polymer Self-Assembly Using Complementary Hydrogen Bonding Units" Joy Romulus and Marcus Weck\* *Macromol. Rapid Commun.* **2013**, *34*, 1518-1523.
116. "Alternating ROMP Copolymers Containing Charge-transfer Units" Joy Romulus, Li Tan, Marcus Weck,\* and Nicole S. Sampson\* *ACS Macro Lett.* **2013**, *2*, 749-752.

115. "Cinnamate-Based DNA Photolithography" Lang Feng\*, Minfeng Li, Joy Romulus, Ruojie Sha, John Royer, Kun-Ta Wu, Qin Xu, Nadrian C. Seeman, Marcus Weck\*, and Paul Chaikin\* *Nature Mater.* **2013**, *12*, 747-753.
114. "GRGDS-Functionalized Poly(lactide)-*graft*-poly(ethylene glycol) Copolymers: Combining Thiol-Ene Chemistry with Staudinger Ligation" Dorothee E. Borchmann, Niels ten Brummelhuis, and Marcus Weck\* *Macromolecules* **2013**, *46*, 4426-4431.
113. "One-pot Synthesis of Poly(norbornene)-block-Poly(lactic acid) Copolymers Using a Bifunctional Initiator" Hwayoon Jung, Niels ten Brummelhuis, Si Kyung Yang and Marcus Weck\* *Polym. Chem.* **2013**, *4*, 2837-2840.
112. "Dendrimers Functionalized with Membrane-Interacting Peptides for Viral Inhibition" Rossella Tarallo, Tom P. Carberry, Annarita Falanga, Mariateresa Vitiello, Stefania Galdiero, Massimiliano Galdiero\*, and Marcus Weck\* *Int. J. Nanomed.* **2013**, *8*, 521-534.
111. "Poly(styrene) Resin-Supported Co (III) Salen Cyclic Oligomers: Highly Active and Easily Recycled HKR Catalysts" Michael G.C. Kahn, Joakim H. Stenlid, and Marcus Weck\* *Adv. Synth. Catal.* **2012**, *354*, 3016-3024.
110. "Colloids with Valence and Directional Specific Bonding" Yufeng Wang, Yu Wang, Dana R. Breed, Vinothan N. Manoharan, Lang Feng, Andrew D. Hollingsworth, Marcus Weck\*, and David J. Pine\* *Nature* **2012**, *491*, 51-55.  
Highlighted in *Nature* **2012**, *491*, 42-43.  
Highlighted in *C & EN*, "Mimicking Atomic Bonds", November 5<sup>th</sup> **2012**, 10.
109. "Dendrimer Functionalization with a Membrane-Interacting Domain of *Herpes Simplex Virus* Type 1: Towards Intracellular Delivery" Tom P. Carberry, Rossella Tarallo, Annarita Falanga, Emiliana Finamore, Massimiliano Galdiero, Marcus Weck\*, and Stefania Galdiero\* *Chem. Eur. J.* **2012**, *18*, 13678-13685.
108. "Orthogonal Multi-functionalization of Random and Alternating Copolymers" Niels ten Brummelhuis and Marcus Weck\* *ACS Macro Lett.* **2012**, *1*, 1216-1218.
107. "Patterned Polymeric Multilayered Assemblies Through Hydrogen Bonding and Metal Coordination" Victor Piñón III and Marcus Weck\* *Langmuir* **2012**, *28*, 3279-3284.
106. "Highly Crosslinked Polycyclooctyl-Salen Cobalt (III) for the Hydrolytic Kinetic Resolution of Terminal Epoxides" Michael G. C. Kahn and Marcus Weck\* *Catal. Sci. Tech.* **2012**, *2*, 386-389.
105. "Facile Synthesis of Flexible, Donor-Acceptor Side-chain Functionalized Copolymers via Ring-Opening Metathesis Polymerization" Joy Romulus, Sonal Patel and Marcus Weck\* *Macromolecules* **2012**, *45*, 70-77.
104. "Well-defined Poly(lactic acids) Containing Poly(ethylene glycol) Side-chains" José A. Castillo, Dorothee E. Borchmann, Amy Y. Cheng, Yufeng Wang, Chunhua Hu, Andrés J. García\*, and Marcus Weck\* *Macromolecules* **2012**, *45*, 62-69.
103. "Synthesis of First- and Second- Generation Poly(amide)-Dendronized Polymers via Ring-Opening Metathesis Polymerization" Hwayoon Jung, Tom P. Carberry, and Marcus Weck\* *Macromolecules* **2011**, *44*, 9075-9083.
102. "Shell Cross-linked Micelle-Based Nanoreactors for the Substrate-Selective Hydrolytic Kinetic Resolution of Epoxides" Yu Liu, Yu Wang, Yufeng Wang, Jie Lu, Victor Piñón III, and Marcus Weck\* *J. Am. Chem. Soc.* **2011**, *133*, 14260-14263.

101. "Poly(norbornene) Block Copolymer-Based Shell Cross-linked Micelles with Co(III)-salen Cores" Yu Liu, Victor Piñón III, and Marcus Weck\* *Polym. Chem.* **2011**, 2, 1964-1975.
100. "Multi-responsive Reversible Polymer Networks Based On Hydrogen Bonding and Metal Coordination" Kamlesh P. Nair, Victor Breedveld\*, and Marcus Weck\* *Macromolecules* **2011**, 44, 3346-3357.
99. "Free Chlorine Sensing Using an Interferometric Sensor" Jie Xu,\* Ke Feng, and Marcus Weck *Sens. Actuat. B-Chem.* **2011**, 156, 812-819.
98. "Combining Amino-Cyanine Dyes with Polyamide Dendrons: A Promising Strategy for Imaging in the Near-Infrared Region" Cátia Ornelas, Rachele Lodescar, Alexander Durandin, James Canary, Ryan Pennell, Leonard F. Liebes, and Marcus Weck\* *Chem. Eur. J.* **2011**, 17, 3619-3629.
97. "Construction and Multifunctionalization of Janus Dendrimers" Cátia Ornelas, Ryan Pennell, Leonard F. Liebes, and Marcus Weck\* *Org. Lett.* **2011**, 13, 976-979.
96. "Site-Selective Metal-Coordination-Based Patterning of Silane Monolayers" Minfeng Li, Yu Wang, Victor Piñón III, and Marcus Weck\* *Chem. Commun.* **2011**, 2802-2804.
95. "The Bigger, the Better: Ring-Size Effects of Macrocyclic Oligomeric Co(III)-Salen Catalysts" Yu Liu, Jonathan Rawlston, Andrew T. Swann, Tait Takatani, C. David Sherrill, Peter J. Ludovice\*, and Marcus Weck\* *Chem. Sci.* **2011**, 2, 429-438.
94. "Modulating Mechanical Properties of Self-assembled Polymer Networks by Multi-functional Complementary Hydrogen Bonding" Kamlesh P. Nair, Victor Breedveld\*, and Marcus Weck\* *Soft Matter* **2011**, 7, 553-559.
93. "Supporting Multiple Metallic Catalysts on Poly(norbornene) for Cyanide Addition to  $\alpha,\beta$ -Unsaturated Imides" Nandita Madhavan, William Sommer, and Marcus Weck\* *J. Mol. Cat. A Chem.* **2011**, 334, 1-7.
92. "Main-chain Supramolecular Block Copolymers" Si Kyung Yang, Ashootosh V. Ambade and Marcus Weck\* *Chem. Soc. Rev.* **2011**, 40, 129-137.
91. "Kinetic Evaluation of Cooperative Co(salen) Catalysts in the Hydrolytic Kinetic Resolution of *rac*-Epichlorohydrin" Xunjin Zhu, Krishnan Venkatasubbaiah, Marcus Weck, and Christopher W. Jones\* *ChemCatChem* **2010**, 2, 1252-1259.
90. "Highly Active Oligomeric Co(Salen) Catalysts for the Asymmetric Synthesis of  $\alpha$ -Aryloxy or  $\alpha$ -Alkoxy Alcohols via Kinetic Resolution of Terminal Epoxides" Xunjin Zhu, Krishnan Venkatasubbaiah, Marcus Weck, and Christopher W. Jones\* *J. Mol. Catal. A* **2010**, 329, 1-6.
89. "Strain-Promoted Alkyne Azide Cycloaddition for the Functionalization of Poly(amide)-based Dendrons and Dendrimers" Cátia Ornelas, Johannes Broichhagen, and Marcus Weck\* *J. Am. Chem. Soc.* **2010**, 132, 3923-3931.
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14. "Non-Covalent Functionalized Copolymers" Caroline Burd, Mary Nell Higley, Kamlesh P. Nair, Clint South, and Marcus Weck\* *Polymer Preprints* **2005**, *46(2)*, 1139.
13. "Non-Covalent Block Copolymers of Poly(norbornene)s" Kamlesh P. Nair and Marcus Weck\* *Polymer Preprints* **2005**, *46(2)*, 1137-1138.
12. "Side-Chain Functionalized Poly(norbornene)s Containing Terminal Iridium Coordination Complexes" Joseph R. Carlise, Xian-Yong Wang, and Marcus Weck\* *Polymer Preprints* **2005**, *46(2)*, 1000-1001.
11. "Metal Quinolate Polymers as Materials in Polymeric Organic Light-Emitting Diodes" Amy Meyers, Xian-Yong Wang, Alpay Kimyonok, Clint South, Xiaowei Zhan, Yian-Yang Cho, Benoit Domercq, Bernard Kippelen, Seth R. Marder, and Marcus Weck\* *Polymeric Materials: Science and Engineering* **2005**, *92*, 565.
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9. "Orthogonal Non-covalent Cross-linking and Small Molecule Self-assembly Onto 'Universal Polymer Backbones' via Multi-Site Molecular Recognition" Joel M. Pollino, Kamlesh Nair, and Marcus Weck\* *Polymer Preprints* **2004**, *45(2)*, 774-775.
8. "Orthogonal Copolymer Functionalization using Metal Coordination and Hydrogen Bonding" Joel M. Pollino and Marcus Weck\* *Polymer Preprints* **2004**, *45(1)*, 339-340.



7. "Block-copolymers and Perfectly Alternating Copolymers *via* Self-Assembly" Mary Nell Higley, Joel M. Pollino, Erik Hollembeak, and Marcus Weck\* *Polymer Preprints* **2003**, *44*(2), 463.
6. "Towards the Synthesis of Self-Assembled Block-Copolymers" Mary Nell Higley, Joel M. Pollino, Erik Hollembeak, and Marcus Weck\* *Polymer Preprints* **2003**, *44*(2), 527.
5. "Supramolecular Coordination Chemistry in Thermoresponsive Poly(N-isopropylacrylamide) Microgels Containing Terpyridine Ligands" Matija Crne, Daoji Gan, L. Andrew Lyon, and Marcus Weck\* *Polymer Preprints* **2003**, *44*(2), 523-524.
4. "Side- and Main-Chain Functionalized Copolymers *via* Multi-Step Self-Assembly" Ludger P. Stubbs, Joel M. Pollino, Amy Meyers, Joseph R. Carlise, Matija Crne, Mary Nell Higley, and Marcus Weck\* *Polymer Preprints* **2003**, *44*(1), 656.
3. "Towards the Universal Polymer Backbone: Optimization of Norbornene Monomers Possessing Terminal Hydrogen Bonding Receptors or Metal-Coordinating Units" Joel M. Pollino, Ludger P. Stubbs, and Marcus Weck\* *Polymer Preprints* **2003**, *44*(1), 730.
2. "Synthesis of Alq<sub>3</sub>-Containing Polymers Using Ring-Opening Metathesis Polymerization" Amy Meyers and Marcus Weck\* *Polymer Preprints* **2002**, *43*(2), 1134.
1. "Side-Chain Polymer with Hydrogen Bonding Recognition Sites by ROMP of Triazine Functionalized Norbornenes" Ludger P. Stubbs, Jacob Adams, and Marcus Weck\* *Polymer Preprints* **2002**, *43*(1), 545-546.

#### ASSIGNED PATENTS AND PATENT APPLICATIONS

10. "Avobenzene-Dendrimer Conjugates" Elizabeth Anne Kaufmann and Marcus Weck US 20160318971.
9. "Nucleic Acid Coated Colloids" David J. Pine, Marcus Weck, Yu Wang, Yufeng Wang, Xiaolong Zheng, Etienne Ducrot, and Jeremy Yodh US 20160318971.
8. "Colloids with Valence: Fabrication, Functionalization and Directional Bonding" Yufeng Wang, Yu Wang, Dana R. Breed, Vinothan N. Manoharan, Lang Feng, Andrew D. Hollingsworth, Marcus Weck, and David J. Pine, US 9,486,768; November 8<sup>th</sup> 2016.
7. "Carbazole-Based Hole Transport and/or Electron Blocking Materials and/or Host Polymer Materials" Yadong Zhang, Seth R. Marder, Carlos Zuniga, Stephen Barlow, Bernard Kippelen, Benoit Domerq, Andreas Haldi, Marcus Weck, and Alpay Kimyonok, US 8,546,505; October 13<sup>th</sup> 2013.
6. "ROMP-Polymerizable Electron Transport Materials Based on a Bis-oxadiazole Moiety" Seth R. Marder, Stephen Barlow, Yadong Zhang, Sushanta Pal, Bernard Kippelen, Andreas Haldi, Benoit Domerq, Marcus Weck, and Alpay Kimyonok, WO 2009080797; EP 2234991; KR 2010110339; CN 101952263; JP 2011509241; US 20110009584.
5. "Norbornene-Based Copolymers with Iridium Complexes and Exciton Transport Groups in Their Side-Chain and Uses Thereof" Alpay Kimyonok, Benoit Domerq, Andreas Haldi, Jian-Yang Cho, Joseph R. Carlise, Xian-Yong Wang, Lauren E. Hayden, Simon C. Jones, Stephen Barlow, Seth R. Marder, Bernard Kippelen, and Marcus Weck, WO 2009026235; KR 2010058563; US 20110196104.
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3. "Raman-Enhancing and Non-Linear Optically Active Nano-Sized Optical Labels and Their

- Use" Robert M. Dickson, Jie Zheng, Lynn A. Capadona, Jeffrey T. Petty, Sandeep A. Patel, Marcus Weck, WO 2005086830; US 20080118912.
2. "Crosslinked Polysaccharides and Methods of Making and using Crosslinked Polysaccharides" Lewis R. Norman, Joseph R. Carlise, Joseph, Javier Jesus Concepcion Corbea, William S. Rees JR, and Marcus Weck, US 7,595,391; September 29<sup>th</sup> 2009.
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## COMMENTARIES REFERRING TO WECK GROUP RESEARCH

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20. "Polymers from Living ROMP and Metal Coordination" *Synfacts*, **2009**, 1100.
18. "Polymer-Supported (Salen)Al Catalyst" *Synfacts*, **2008**, 545.
17. "Hydrolytic Kinetic Resolution of Epoxides Using Polymer-Supported Cobalt Catalyst" *Synfacts*, **2008**, 430.
16. "Resolving More with Less" *Science*, **2007**, 315, 575.
15. "Report Issued on Emerging Lighting Systems" *Photonics Spectra* **2006**, February.
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11. "Polymer Processing for Alq<sub>3</sub>" *The Spectrum* **2003**, 16, 30-31.
10. "Less Expensive Displays" *Research Horizons* **2003**, *Spring/Summer*, 37.
9. "Polymer Incorporates Alq<sub>3</sub> for Organic LEDs" *Photonics Spectra* **2003**, *May 22<sup>nd</sup>*.
8. "Polymer Puts Solution Processing in Reach for OLEDs" *Electronicsweekly.com* **2003**, *April 30<sup>th</sup>*.
7. "Less Expensive Displays: New Technique Allows Polymer Processing of a Key Solid-state Fluorescent Material" *The Sol-Gel Gateway* <http://www.solgel.com/articles/april03/OLEDs.asp> **2003**, *April*.
6. "Less Expensive Displays: New Technique Allows Polymer Processing of a Key Solid-State Fluorescent Materials" *Georgia Tech Research News* **2003**, *March 27*.
5. "Making a Glowing Polymer" *Science* **2003**, 299, 1488.
4. "Designer Polymers" *R & D Magazine, Bacon's* **2002**, *October*, 78A-2340.
3. "Imitating Nature" *Research Horizons* **2002**, *Fall*, 35.
2. "Design Your Own Material in 10 Minutes" *Design News* **2002**, *August*.
1. "Imitating Nature: Self-Assembly Technique May Build Designer Polymers from Modular Scaffolds & Building Blocks" *Georgia Tech Research News* **2002**, *August 20*.

## INVITED SEMINAR PRESENTATION

- (124) December 16, 2019 *Folded Block Copolymers* Next Generation Smart Materials Workshop, Savannah, GA
- (123) September 17, 2019 *Directed Self-Assembly and Crystallization of Colloids* Purdue University, West Lafayette, IN
- (122) September 22, 2019 *Directed Self-Assembly and Crystallization of Colloids* University of Connecticut, Storrs, CT
- (121) May 22, 2019 *Directed Self-Assembly and Crystallization of Colloids* Drexel University, Philadelphia, PA
- (120) December 13, 2018 *Folded Block Copolymers* New York Systems Chemistry Symposium, CCNY New York, NY
- (119) November 16, 2018 *Polymer-Supported Catalysts: Synergy Between Catalytic Mechanism and Polymer Design* Institute of Chemical and Engineering Sciences, Singapore
- (118) November 16, 2018 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies* Institute of Chemical and Engineering Sciences, Singapore
- (117) November 14, 2018 *Directed Self-Assembly and Crystallization of Colloids* Second Middle Eastern Materials Science Conference, Abu Dhabi, UAE
- (116) October 3, 2018 *Directed Self-Assembly and Crystallization of Colloids* Johns Hopkins University, Baltimore, MD
- (115) August 19, 2018 *Folded Block Copolymers* Rensselaer National ACS Meeting, Boston, MA

- (114) June 20, 2018 *Directed Self-Assembly and Crystallization of Colloids* National US-Japan Hybrid Materials Workshop, Newark, NJ
- (113) October 24, 2017 *Foldable Supramolecular Polymers* Rensselaer Polytechnic Institute, Troy, NY
- (112) August 23, 2017 *Supramolecular Di- and Triblock Copolymers From Protein-Structural-Motif Mimicking Telechelic Building Blocks* National ACS Meeting, Washington D.C.
- (111) August 22, 2017 *Directed Self-Assembly and Crystallization of Colloids* National ACS Meeting, Washington D.C.
- (110) August 21, 2017 *Well-Defined Polymeric Architectures via Foldable Block Copolymers* National ACS Meeting, Washington D.C.
- (109) July 26, 2017 *Cascade Catalysis in Multicompartment Nanoreactors* DOE Contractors Meeting, Washington D.C.
- (108) July 10, 2017 *Directed Self-Assembly and Crystallization of Colloids* ACS Colloid Symposium 2017, New York, NY
- (107) March 2, 2017 *Foldable Supramolecular Polymers* Rutgers University, Newark, NJ
- (106) November 22, 2016 *Directed Self-Assembly and Crystallization of Colloids* Columbia University, New York, NY
- (105) June 14, 2016 *Directed Self-Assembly and Crystallization of Colloids* NYU-Tel Aviv University Symposium, New York, NY
- (104) June 10, 2016 *Supramolecular Blockcopolymers* MARM Meeting, New York, NY
- (103) March 14, 2016 *Directed Self-Assembly and Crystallization of Colloids* Cornell University, Ithaca, NY
- (102) February 17, 2016 *Compartmentalization of Catalysts for Tandem Catalysis* NYUAD International Chemistry Conference on Organic and Bioorganic Chemistry, NYU Abu Dhabi, Abu Dhabi UAE
- (101) August 16, 2015 *Folded Supramolecular Block Copolymers* National ACS Meeting, Boston, MA
- (100) June 18, 2015 *Directed Self-Assembly and Crystallization of Colloids* SoftNano Symposium, CCNY, New York, NY
- (99) December 5, 2014 *Supramolecular Polymers and Spatially Controlled Assembly of Colloids*; Freie University Berlin, Germany
- (98) December 1, 2014 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; Schiller University Jena, Germany
- (97) November 13, 2014 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; Karlsruhe Institute of Technology, Germany
- (96) November 12, 2014 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; University of Mainz, Germany
- (95) November 11, 2014 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; Chemische Gesellschaft Heidelberg, Germany

- (94) October 24, 2014 *Multivalent Assemblies of Colloids*; 3<sup>rd</sup> International Symposium of the SFB 765, Berlin, Germany
- (93) October 9, 2014 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; University of Stuttgart, Germany
- (92) October 7, 2014 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; University of Siegen, Germany
- (91) September 5, 2014 *Polymer-Supported Catalysts: Synergy Between Catalytic Mechanism and Polymer Design*; Freie University Berlin, Germany
- (90) April 25, 2014 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; Brooklyn College, New York, NY
- (89) March 19, 2014 *Directed Self-Assembly of Colloids*; National ACS Meeting, Dallas, TX
- (88) March 16, 2014 *Formation and Folding of Supramolecular Block Copolymers*; National ACS Meeting, Dallas, TX
- (87) March 3, 2014 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; University of Wisconsin, Madison, WI
- (86) February 20, 2014 *Learning from Nature: Functionalizing Polymers for Tomorrows Applications*; SUNY New Paltz, New Paltz, NY
- (85) February 12, 2014 *Colloidal Molecules*; Fusion Conference in Functional Polymeric Materials, Cancun, Mexico
- (84) September 9, 2013 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; National ACS Meeting, Indianapolis, IN
- (83) July 5, 2013 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; Summer Symposium on Supramolecular Materials, Stony Brook, NY
- (82) March 19, 2013 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; DuPont, Wilmington, DE
- (81) November 13, 2012 *Materials Design via Self-Assembly: From Supramolecular Polymers to Colloidal Assemblies*; Rensselaer Polytechnic Institute, Troy, NY
- (80) September 20, 2012 *Supramolecular Copolymers*; College of Staten Island, NY
- (79) July 10, 2012 *Polymer-Supported Catalysts: Synergy Between Catalytic Mechanism and Polymer Design*; Warwick Polymer 2012, Warwick, UK
- (78) March 27, 2012 *Poly(Oxazoline) Supported Catalysts - Tuning Catalyst Activity and Selectivity*; National ACS Meeting, San Diego, CA
- (77) March 26, 2012 *Surface Functionalization of Supramolecular Polymers and Self-Assembly of Patchy Particles*; National ACS Meeting, San Diego, CA
- (76) January 9, 2012 *Multifunctional Polymers for Biomaterials Application*; 14<sup>th</sup> International Union of Pure and Applied Chemistry Conference on Polymers and Organic Chemistry (POC 2012), Doha, Qatar
- (74) March 23, 2011 *Multifunctional Supramolecular Copolymers via Ring-Opening Metathesis Polymerization*; National ACS Meeting, Anaheim, CA
- (73) August 23, 2010 *Supramolecular Copolymers*; National ACS Meeting, Boston, MA

- (72) June 22, 2010 *Supramolecular Copolymers*; Humboldt Universität, Berlin, Germany
- (71) June 21, 2010 *Polymer-Supported Catalysts: Synergy Between Catalytic Mechanism and Polymer Design*; Schiller Universität, Jena, Germany
- (70) March 24, 2010 *Photo-Patterned Surfaces via Metal Coordination*; National ACS Meeting, San Francisco, CA
- (69) March 22, 2010 *Polymer-Supported Catalysts: Synergy Between Catalytic Mechanism and Polymer Design*; Ipatieff Awards Symposium, National ACS Meeting, San Francisco, CA
- (68) March 12, 2010 *Supramolecular Copolymers*; State University of New York Stony Brook, Stony Brook, NY
- (67) January 25, 2010 *Multifunctional Dendrimers as Imaging and Delivery Tools*; Radiology Department, New York University, New York, NY
- (66) November 17, 2009 *Multifunctional Copolymers via Self-Assembly*; Freie Universität Berlin, Berlin, Germany
- (65) November 6, 2009 *Supramolecular Copolymers*; University of Texas at Austin, Austin, TX
- (64) November 5, 2009 *Supramolecular Copolymers*; Texas A & M University, College Station, TX
- (63) November 4, 2009 *Supramolecular Copolymers*; Southern Methodist University, Dallas, TX
- (62) November 3, 2009 *Supramolecular Copolymers*; Texas Christian University, Fort Worth, TX
- (61) October 26, 2009 *Supramolecular Block Copolymers*; Composite Meeting at Lake Louise, Lake Louise, Canada
- (60) September 14, 2009 Plenary Lecture: *Supramolecular Copolymers*; AIM meeting of the Italian Macromolecular Society, Milano, Italy
- (59) August 16, 2009 *Supramolecular Block Copolymers*; Symposium on: Metal Complexes in Polymer Science; National ACS meeting, Washington DC
- (58) August 5, 2009 *Supramolecular Block Copolymers*; International Symposium on Olefin Metathesis XVIII, Leipzig, Germany
- (57) March 26, 2009 *Supramolecular Thermoreversible Polymer Networks with Tunable Properties*; Symposium on: Applications of Supramolecular Polymers; National ACS Meeting, Salt Lake City, UT
- (56) December 6, 2008 *Synthesis and OLED Applications of Aluminum and Iridium-Containing Polymers*; SEAM XIV, New York, NY
- (55) November 5, 2008 *Side-Chain Functionalized Supramolecular Polymers*; Texas Tech, Lubbock, TX
- (54) September 22, 2008 *Side-Chain Functionalized Supramolecular Polymers*; City College of New York, New York, NY
- (53) May 21, 2008 *Side-Chain Functionalized Supramolecular Polymers*, Middle Atlantic Regional Meeting of the ACS, Queens, NY
- (52) November 13, 2007 NSF Workshop on Dynamic Combinatorial Chemistry, Boston, MA
- (51) November 8, 2007 *Functional Polymers via Self-Assembly*; Brooklyn Polytechnic University, Brooklyn, NY

- (50) November 1, 2007 *Multifunctional Materials via Self-Assembly*; Russell Marker Symposium, University of Maryland, College Park, MD
- (49) September 21, 2007 *Functional Polymers via Self-Assembly*; University of Connecticut, Storrs, CT
- (48) August 19, 2007 *Multifunctional Materials via Self-Assembly*; Symposium in Honor of Sir Fraser Stoddart, National ACS meeting, Boston, MA
- (47) August 19, 2007 *Metal Complexes as Synthons for the Synthesis of Polymeric Materials*; Symposium on: Metal Complexes in Polymer Science; National ACS Meeting, Boston, MA
- (46) July 30, 2007 *Supramolecular Polymers Based on ROMP*; International Symposium on Olefin Metathesis, Pasadena, CA
- (45) June 21, 2007 *Functional Polymeric Architectures via Self-Assembly*; Gordon Research Conference, Polymer East, Mount Holyoke, South Hadley, MA
- (44) May 2, 2007 *Functional Polymers via Multi-Site Self-Assembly*; Virginia Tech, Blacksburg, VA
- (43) March 29, 2007 *Functional Polymeric Architectures via Self-Assembly*; Purdue University, West Lafayette, IN
- (42) March 26, 2007 *Functional Polymeric Architectures via Self-Assembly*; Symposium on: Exploring and Exploiting Nature with Biomimetics; National ACS Meeting, Chicago, IL
- (41) March 5, 2007 *Functional Polymers via Multi-Site Self-Assembly*; Georgia Institute of Technology, School of Polymer and Textiles Engineering, Atlanta, GA
- (40) February 23, 2007 *Functional Polymers via Multi-Site Self-Assembly*; Rutgers University, Newark, NJ
- (39) January 20, 2007 *Functional Polymers via Multi-Site Self-Assembly*; Tulane University, New Orleans, LA
- (38) January 19, 2007 *Metal-Containing Poly(norbornene)s as Unique Platform in Materials Science*; University of California Los Angeles, Los Angeles, CA
- (37) October 29, 2006 NSF Workshop on Physical Organic Chemistry, Lake Arrowhead, CA
- (36) October 26, 2006 *Activity and Selectivity of Polymer-Supported Catalysts*; University of California Los Angeles, Los Angeles, CA
- (35) October 24, 2006 *Functional Polymers via Multi-Site Self-Assembly*; UCLA NanoSystems Seminar Series; University of California Los Angeles, Los Angeles, CA
- (34) July 22, 2006 *Functional Polymers via Multi-Site Self-Assembly*; Nobel Celebration Symposium for Robert H. Grubbs, Pasadena, CA
- (33) June 9, 2006 *Self-Assembly Strategies Towards Functional Polymers*; University of Eindhoven, The Netherlands
- (32) June 1, 2006 *Self-Assembly Strategies Towards Functional Polymers*; New York University, New York, NY
- (31) April 26, 2006 *Functional Polymers via Multi-Site Self-Assembly*; Solvay/Cope Symposium on Organic Electronics, Atlanta, GA
- (30) February 7, 2006 *Materials Design via Self-Assembly*; University of Wisconsin, Madison, WI



- (29) November 11, 2005 *Functional Polymers via Multi-Recognition Site Self-Assembly*; University of Chicago, Chicago, IL
- (28) November 8, 2005 *Functional Polymers via Multi-Recognition Site Self-Assembly*; University of Michigan, Ann Arbor, MI
- (27) October 14, 2005 *Functional Polymers via Multi-Recognition Site Self-Assembly*; DuPont Corporation, Wilmington, DE
- (26) September 14, 2005 *Activity and Selectivity of Polymer-Supported Catalysts*; Emory University, Atlanta, GA
- (25) September 9, 2005 *Functional Polymers via Multi-Recognition Site Self-Assembly*; University of Texas at Austin, Austin, TX
- (24) August 28, 2005 *Non-Covalently Functionalized Copolymers*; National ACS Meeting, Washington DC
- (23) June 16, 2005 *Functional Polymeric Architectures via Multi-Step Self-Assembly*; Gordon Research Conference on Supramolecules and Assemblies
- (22) March 16 and 17, 2005 *Functional Polymers via Multi-Site Self-Assembly and Metal-Quinolate Polymers as Materials in Polymeric Organic Light-Emitting Diodes*; National ACS Meeting, San Diego, CA
- (21) February 18, 2005 *Functional Polymers via Multi-Recognition Site Self-Assembly*; University of Massachusetts, Amherst, MA
- (20) February 5, 2005 *Functional Polymeric Architectures via Multi-Recognition Site Self-Assembly*; University of New Orleans, New Orleans, LA
- (19) January 28, 2005 *Functional Polymeric Architectures via Multi-Recognition Site Self-Assembly*; University of North Carolina, Chapel Hill, NC
- (18) January 24, 2005 *Poly(norbornene)s as Unique Platform in Materials Synthesis*; Promerus Corporation, Cleveland, OH
- (17) October 25, 2004 *Functional Polymeric Architectures via Multi-Recognition Site Self-Assembly*; University of Illinois at Urbana-Champaign, Urbana-Champaign, IL
- (16) September 10, 2004 *Functional Polymeric Architectures via Multi-Recognition Site Self-Assembly*; New York University, New York, NY
- (15) August 23, 2004 *Supported Palladated Pincer Complexes in Heck Catalysis*; National ACS Meeting, Philadelphia, PA
- (14) May 7, 2004 *Materials Design via Multi Recognition Site Self-Assembly*; FAME Meeting, Orlando, FL
- (13) April 28, 2004 *Functional Polymeric Architectures via Multi-Recognition Site Self-Assembly*; University of North Carolina, Charlotte, NC
- (12) January 12, 2004 *Materials Design via Multi-Recognition Site Self-Assembly*; NSF Young Investigator Workshop in Supramolecular Chemistry
- (11) November 17, 2003 *Functional Polymeric Architectures via Multi-Recognition Site Self-Assembly*; Southeast Regional ACS Meeting, Atlanta, GA
- (10) October 31, 2003 *Design and Synthesis of Polymeric Materials via Self-Assembly for Electro-Optical Applications*; 3M Company, St. Paul, MN

- (9) October 3, 2003 *Functional Polymeric Architectures via Multi-Recognition Site Self-Assembly*; Harold Nations Symposium, Atlanta, GA
- (8) September 2, 2003 *Design and Synthesis of Polymeric Materials via Self-Assembly for Electro-Optical Applications*; Albemarle Corporation, Baton Rouge, LA
- (7) September 10, 2003 *Copolymer Design via Self-Assembly*; National ACS Meeting, New York, NY
- (6) March 26, 2003 *Side-Chain Functionalized Copolymers via Multi-Step Self-Assembly*; National ACS Meeting, New Orleans, LA
- (5) February 20, 2003 *Design of Polymeric Materials via Self-Assembly*; Florida State University, Tallahassee, FL
- (4) November 14, 2002 *Functionalized Polynorbornenes via Self-Assembly*; Southeast Regional ACS Meeting, Charleston, SC
- (3) October 8, 2002 *Polymer Design via Multi-Step Self-Assembly*; 3M Company, St. Paul, MN
- (2) August 19, 2002 *A Self-Assembly Approach Toward Side-Chain Functionalized Copolymers*; National ACS Meeting, Boston, MA
- (1) April 24, 2001 Southeast Regional ACS Meeting, Atlanta, GA

## TEACHING

### NEW YORK UNIVERSITY CONTRIBUTIONS

Spring 2021	Chem-GA 2420: Polymer Chemistry
Spring 2021	Chem-UA 225: Organic Chemistry I
Spring 2020	Chem-GA 2420: Polymer Chemistry
Spring 2020	Chem-UA 225: Organic Chemistry I
Spring 2019	Chem-GA 2420: Polymer Chemistry
Spring 2019	Chem-UA 225: Organic Chemistry I
Spring 2018	Chem-GA 2420: Polymer Chemistry
Spring 2018	Chem-UA 225: Organic Chemistry I
Spring 2017	Chem-GA 2420: Polymer Chemistry
Spring 2017	Chem-UA 225: Organic Chemistry I
Spring 2016	Chem-GA 2420: Polymer Chemistry
Spring 2016	Chem-UA 225: Organic Chemistry I
Spring 2015	Chem-UA 225: Organic Chemistry I
Fall 2013	Chem-UA 225: Organic Chemistry I
Spring 2013	Chem-GA 2420: Polymer Chemistry
Fall 2011	Chem-UA 225: Organic Chemistry I
Spring 2011	V25.0226: Organic II Laboratory
Fall 2010	G25.2262: Organometallic Chemistry
Spring 2010	G25.2420: Polymer Chemistry

Spring 2009	G25.2420: Polymer Chemistry
Fall 2008	V25.0341: Honors Organic I
Spring 2008	G25.2261: Special Topics in Organic Chemistry: Polymers Chemistry

*GEORGLATECH CONTRIBUTIONS*

Spring 2007	Chemistry 1315: Survey of Organic Chemistry
Fall 2006	Chemistry 6750: Preparation and Reaction of Polymers
Spring 2006	Chemistry 1315: Survey of Organic Chemistry
Fall 2005	Chemistry 6750: Preparation and Reaction of Polymers
Spring 2005	Chemistry 1315: Survey of Organic Chemistry
Spring 2004	Chemistry 1315: Survey of Organic Chemistry
Spring 2004	Chemistry 8000: Seminar in Chemistry
Fall 2003	Chemistry 8813: Chemistry of Nanomaterial Systems
Fall 2003	Chemistry 8000: Seminar in Chemistry
Fall 2003	Chemistry 6750: Preparation and Reaction of Polymers
Spring 2003	Chemistry 1315: Survey of Organic Chemistry
Fall 2002	Chemistry 4681: Advanced Chemistry Laboratory
Fall 2002	Chemistry 6372: Physical Organic Chemistry
Spring 2002	Chemistry 1315: Survey of Organic Chemistry
Fall 2001	Chemistry 4681: Advanced Chemistry Laboratory
Fall 2001	Chemistry 6372: Physical Organic Chemistry
Fall 2000	Chemistry 6372: Physical Organic Chemistry

**SERVICE**

*PROFESSIONAL CONTRIBUTIONS*

**Member**, Scientific Advisory Board, Center for Nanothread Chemistry, Pennsylvania State University (2020 – present)

**Member**, External Advisory Board *Journal of the American Chemical Society Au* (2020 – present)

**Ad Hoc Member**, National Institute of Health, Nanotechnology Study Section (2019)

**Member** and **Chair**, Scientific Advisory Board, Excellence Cluster 3D Matter Made to Order, Karlsruhe Institute of Technology, Germany (2019 – present)

**Member**, ACS National Award Selection Committee (2019 – 2021 award cycle)

**Member**, Advisory Board *Polymer Chemistry* (2017 – present)

**Ad Hoc Member**, National Institute of Health, Nanotechnology Study Section (2017)

**Panel Member**, National Science Foundation, Proposal Evaluation Panel (2016)

**Ad Hoc Member**, National Institute of Health, Nanotechnology Study Section (2015)

- Panel Member**, Department of Energy, Catalysis Program Argonne National Laboratory (2015)
- Panel Member**, National Science Foundation, Proposal Evaluation Panel (2014)
- Guest Editor**, *Polymer Chemistry*, Special Issue on Supramolecular and Dynamic Covalent Polymers (2012)
- Panel Member**, National Science Foundation, Proposal Evaluation Panel (2012)
- Panel Member**, National Science Foundation, Proposal Evaluation Panel (2010)
- Member**, International Scientific Advisory Board of the IUPAC Polymers and Organic Chemistry meeting in Doha, Qatar, 2012
- Co-organizer and Presenter**, One week workshop on 'The Materials World' through the Faculty Resource Network at NYU, June 2011
- Member**, International Advisory Board *Macromolecular Rapid Communications* (2009 – present)
- Panel Member**, National Science Foundation, Proposal Evaluation Panel (2008)
- Session Chair**, Gordon Research Conference on Organic Structure & Properties, Il Chiocco, Italy, May 2008
- Member**, Editorial Advisory Board *Macromolecules* (2008 – 2010)
- Member**, International Advisory Board *Macromolecular Chemistry and Physics* (2008 – present)
- Ad Hoc Member**, National Institute of Health, Nanotechnology Study Section (2007 – 2011)
- Session Chair**, American Chemical Society, National ACS Meeting, Boston, MA, August 2007
- Participant**, National Academy of Science, Kavli Frontiers of Science Symposium, Irvine, CA, June 2007
- Participant**, National Science Foundation Workshop on Physical Organic Chemistry, Lake Arrowhead, CA, October 2006
- Session Chair**, American Chemical Society, National ACS Meeting, Atlanta, GA, March 2006
- Participant**, National Science Foundation Workshop on Chemistry and Sustainability: Young Investigators, November 2005
- Co-organizer and Presenter**, Workshop on 'Polymer Chemistry' (NSF sponsored workshop under the program 'Center for Workshops in Chemical Sciences'), June 2004
- Co-organizer and Presenter**, Polymer Program, Annual South-Eastern Regional Meeting of the American Chemical Society, Atlanta, GA, November 2003
- Organizer and Presenter**, Nations Symposium, Georgia Institute of Technology, Atlanta, GA, October 2003
- Session Chair**, American Chemical Society, National ACS Meeting, New York, NY, September 2003
- Presenter**, Workshop on 'Organometallic Chemistry' (NSF sponsored workshop under the program 'Center for Workshops in Chemical Sciences'), June 2002
- Panel Member**: 'Job Opportunities for Chemists in Higher Education', Georgia Section of the American Chemical Society, April 2001

**Reviewer** for the following journals and funding agencies:

Journals

*ACS Macro Letters, ACS Catalysis, Advanced Materials, Advanced Functional Materials, Advanced Synthesis and Catalysis, Angewandte Chemie International Edition, Bioconjugate Chemistry, Biomacromolecules, Chemical Communications, Chemistry: A European Journal, Chemistry of Materials, Chirality, Coordination Chemistry Reviews, European Journal of Inorganic Chemistry, European Journal of Organic Chemistry, Journal of Applied Polymer Science, Journal of Chemical Education, Journal of Materials Chemistry, Journal of Organic Chemistry, Journal of Organometallic Chemistry, Journal of Physical Chemistry, Journal of Polymer Science, Part A: Polymer Chemistry, Journal of Solid State Chemistry, Journal of the American Chemical Society, Journal of the American Chemical Society AU, Langmuir, Macromolecular Chemistry and Physics, Macromolecular Rapid Communications, Macromolecules, Macro Letters, Nanoscale, Nature, Nature Chemistry, Nature Communications, Nature Materials, Optical Materials, Organic Letters, Organometallics, Polymer Chemistry, Polymer International, Science, Science Advances, Soft Matter, Synthesis, Synthetic Metals, Tetrahedron, Tetrahedron Letters*

Funding Agencies

*Army Research Office, Austrian Science Fund, Czech Science Foundation, Department of Energy, Engineering and Physical Sciences Research Council (UK), Deutsche Forschungs Gesellschaft, European Union Science Foundation, National Institute of Health, National Science Foundation, National Science and Engineering Research Council of Canada, National Textiles Center, Research Corporation, South Carolina Research Initiative, Swiss Science Foundation, The Petroleum Research Fund, U.S. Civilian Research and Development Foundation*

**Member** of the following societies:

- Sigma Xi (2020 – present)
- Materials Research Society (1996 – present)
- American Chemical Society (1994 – present)
- Gesellschaft Deutscher Chemiker (1994 – present)

GEORGLATECH CONTRIBUTIONS

**Chairman**, Sigma Xi Best Ph.D. Thesis Awards Committee (2007)

**Member**, Mass Spec Facility Steering Committee, School of Chemistry and Biochemistry (2006)

**Member**, Freshman Chemistry Committee, School of Chemistry and Biochemistry (2006 – 2007)

**Member**, Executive Committee, School of Chemistry and Biochemistry (2005 – 2006)

**Member**, Chairperson Search Committee, School of Chemistry and Biochemistry (2003)

**Member**, Faculty Search Committee, School of Polymer, Textiles and Fiber Engineering (2002 – 2003)

**Member**, Undergraduate Program Committee, School of Chemistry and Biochemistry (2001 – 2002)

**Member**, Organic Chemistry Faculty Search Committee, School of Chemistry and Biochemistry (2001, 2003, and 2006)

**Member**, Graduate Program Committee, School of Chemistry and Biochemistry (Fall semester 2001 – 2007)

**Member (Chair 2003 – 2004)**, Departmental Seminar Committee, School of Chemistry and Biochemistry (2000 – 2005)

**Member**, Inorganic Chemistry Faculty Search Committee, School of Chemistry and Biochemistry, 2000

*NEW YORK UNIVERSITY CONTRIBUTIONS*

**Member**, Promotion Committee Ali Trabolsi, Department of Chemistry (2020 – present)

**Member**, Safety Committee, Department of Chemistry (2019 – present)

**Chair**, Departmental Search Committee, Department of Chemistry (2019 – 2020)

**Chair**, Departmental Search Committee, Department of Chemistry (2018 – 2019)

**Member**, Mentoring Committee Miguel Modestino, Department of Chemical and Biomolecular Engineering, Tandon School of Engineering (2017 – present)

**Member**, Safety Committee, Department of Chemistry (2017 – 2018)

**Chair**, Departmental Search Committee, Department of Chemistry (2017 – 2018)

**Member**, MacCracken Working Group, Faculty of Arts and Science (2017)

**Member**, Awards Committee, Department of Chemistry (2016 – 2017)

**Member**, Promotion and Tenure Committee, Faculty of Arts and Science (2016 – 2019)

**Member**, Inorganic Chemistry Search Committee, Department of Chemistry (2016 – 2017)

**Chair**, NYU Abu Dhabi Chemistry Search Committee, (2016 – 2017)

**Chair**, Third Year Review Committee for Stefano Sacanna, Department of Chemistry (2016)

**Chair**, Molecular Design Institute Search Committee, Department of Chemistry (2015 – 2016)

**Chair**, Safety Committee, Department of Chemistry (2015 – 2017)

**Chair**, Awards Committee, Department of Chemistry (2015 – 2016)

**Chair**, Mentoring Committee Sacanna, Department of Chemistry (2014 – 2016)

**Member**, Awards Committee, Department of Chemistry (2014 – 2015)

**Member**, Mentoring Committee Diao, Department of Chemistry (2014 – 2016)

**Member**, Safety Committee, Department of Chemistry (2014 – 2015)

**Member**, Molecular Design Institute Search Committee, Department of Chemistry (2014 – 2015)

**Member**, Faculty Search Committee, Department of Chemistry (2013 – 2014)

**Member**, Molecular Design Institute Search Committee, Department of Chemistry (2012 – 2013)

**Member**, Academic Standards Committee, College of Arts and Science (2012)

**Member**, Molecular Design Institute Search Committee, Department of Chemistry (2011 – 2012)

**Member**, Executive Committee, Department of Chemistry (2009 – 2014)

**Member**, Molecular Design Institute Search Committee, Department of Chemistry (2010 – 2011)

**Member**, Faculty Search Committee, NYU-Poly's Director of Urban Systems (2009)

**Director of Graduate Studies**, Department of Chemistry (2009 – 2014)

**Chair**, Molecular Design Institute Search Committee, Department of Chemistry (2008 – 2009 and 2009 – 2010)

**Member**, Graduate Curriculum Committee, Department of Chemistry (2008 – 2014)

**Member**, Dean's Undergraduate Research Fund Selection Committee, College of Arts and Sciences (2007 – 2010)

**Member**, Faculty Search Committee, Department of Chemistry (2007 – 2008)

**Member**, Tenure Committee, Department of Chemistry (2007 – 2008)

**Member**, Graduate Admissions Committee, Department of Chemistry (2007 – 2009)

**Member**, Colloquium Committee, Department of Chemistry (2007 – 2010)

### CONSULTING (IN ALPHABETICAL ORDER)

- (1) Cravath, Swaine, & Moore LLP
- (2) Davis, Polk & Wardwell LLP
- (3) Dow Chemical
- (4) Gibson, Dunn & Crutcher LLP
- (5) Goodwin LLP
- (6) Promerus

### RESEARCH GROUP MEMBERS

#### POSTDOCTORAL FELLOWS

- (1) **Margarita Milton** (MW Group: 2018 – present)  
Ph.D., Columbia University, New York, NY 2018  
Current: Chameleon Communications

#### GRADUATE STUDENTS

- (1) **Eman Ahmed** (MW Group: 2019 – present)  
B.S., Macalester College, MN 2018
- (2) **Ru Deng** (MW Group: 2017 – present)  
B.S., The Hong Kong Polytechnic University, 2016  
B.S., Sun Yat-sen University, China 2016
- (3) **Fangyuan Dong** (MW Group: 2016 – present)  
B.Eng., South China University of Technology, China 2012  
M. Phil., Hong Kong Polytech University, Hong Kong, China, 2015
- (4) **Sage Brooke Dubrawski** (MW Group: 2021 – present)  
B.S., University of Rhode Island, Kingston, RI 2020
- (5) **Veronica Grebe** (MW Group: 2018 – present)  
B.S., Adelphi University, Garden City, NY 2017
- (6) **Nicolle Skye Jackson** (MW Group: 2019 – present)  
B.S., University of West Florida, Pensacola, FL 2018

- (7) **Fangbei Liu** (MW Group: 2020 – present)  
B.S., , China, 2019
- (8) **Arielle Mann** (MW Group: 2019 – present)  
B.S., Tufts University, Boston, MA 2018
- (9) **Samira Munkaila** (MW Group: 2021 – present)  
B.S., University of Cape Coast, Cape Coast, Ghana 2017  
M.S., North Carolina Agricultural Technology State University, Greensboro, NC 2020
- (10) **Peiyuan Qu** (MW Group: 2017 – present)  
B.S., Peking University, Beijing, China 2016  
Dean's Dissertation Fellowship 2020 – 2021
- (11) **Joseph Sanz** (MW Group: 2021 – present)  
B.S, University of California at Santa Barbara, Santa Barbara, CA 2017
- (12) **Chengyuan Wang** (MW Group: 2019 – present)  
B.S, Sichuan University, China 2018

#### UNDERGRADUATE STUDENTS

- (1) **Danni Tang** (MW Group: 2019 – present)  
B.S., New York University, expected 2021

#### VISITING SCIENTISTS

#### FORMER RESEARCH GROUP MEMBER

#### POSTDOCTORAL FELLOWS

- (1) **Dr. Robert Kriegel** (MW Group: 2001 – 2003)  
Ph.D., Georgia Institute of Technology, 2001  
Current: The Coca Cola Company 2003 – present
- (2) **Dr. Ludger Paul Stubbs** (MW Group: 2001 – 2003)  
Ph.D., Technische Hochschule Aachen, Germany, 2000  
Current: Institute of Chemical and Engineering Sciences, Singapore 2003 – present
- (3) **Dr. Michael Holbach** (MW Group: 2004 – 2005)  
Ph.D., Technical University Darmstadt, Germany, 2004  
Postdoctoral Fellowship from the Deutsche Forschungs Gemeinschaft (DFG), 2005  
Current: Merck OLED Materials GmbH 2005 – present
- (4) **Dr. Xian-Yong Wang** (MW Group: 2004 – 2006)  
Ph.D., Tulane University, 2004  
The Hanson Group LLC 2006 – 2015  
Koch Industries/Georgia-Pacific 2015 – 2019  
Current: Isotec International 2019 – present
- (5) **Dr. Kunsang Yoon** (MW Group: 2005 – 2007)  
Ph.D., University of California at Riverside, 2003  
Current: Serina Therapeutics, Inc. 2007 – present
- (6) **Dr. Xiaolai Zheng** (MW Group: 2004 – 2008)  
Ph.D., Technical University Aachen, Germany, 2002  
Current: BASF 2008 – present
- (7) **Dr. Yiqing Wang** (MW Group: 2006 – 2008)



- Ph.D., Georgia Institute of Technology, 2006  
Current: Assistant Professor Nanjing University, China
- (8) **Dr. Alexander Norman** (MW Group: 2007 – 2008)  
Ph.D., University of Sheffield, Sheffield, United Kingdom, 2005  
Exxon/Mobile 2008 – 2018  
Current: Ingredion 2018 – present
- (9) **Dr. Ashootosh Ambade** (MW Group: 2007 – 2008)  
Ph.D., Indian Institute of Technology Bombay, India, 2004  
Current: Senior Scientist CSIR National Chemical Laboratory Pune, India 2013 – present
- (10) **Dr. Nandita Madhavan** (MW Group: 2006 – 2008)  
Ph.D., University of Illinois, Urbana Champaign, 2005  
Assistant Professor IIT Madras, India 2008 – 2016  
Current: Associate Professor IIT Mumbai, India 2016 – present
- (11) **Dr. Ke Feng** (MW Group: 2007 – 2009)  
Ph.D., The Chinese Academy of Science, Beijing, China, 2007  
Current: Senior researcher in the Key Laboratory of Photochemical Conversion and Optoelectronic Materials, Technical Institute of Physics and Chemistry, Chinese Academy of Science, China
- (12) **Dr. Minfeng Li** (MW Group: 2008 – 2010)  
Ph.D., State University of New York, Buffalo, 2008  
Current: Associate Professor, Department of Chemical Biology, Beijing Normal University, China
- (13) **Dr. Cátia Cristina Capêlo Ornelas** (MW Group: 2008 – 2010)  
Ph. D., Université Bordeaux, France, 2007  
Current: Professor, University of Campinas (UNICAMP), Brazil 2012 – present
- (14) **Dr. Yu Liu** (MW Group: 2008 – 2011)  
Ph.D., New York University, 2008  
Assistant Professor, Northern Michigan University 2011 – 2017  
Current: Associate Professor, Northern Michigan University 2017 – present
- (15) **Dr. José A. Castillo** (MW Group: 2010 – 2012)  
Ph.D., Catalonia Institute for Advanced Chemistry-CSIC, Barcelona, Spain, 2007  
Norbrook Laboratories Limited, Northern Ireland, 2013 – 2017  
Current: Lamirsa 2017 – present
- (16) **Dr. John Henssler** (MW Group: 2010 – 2012)  
Ph.D., University of Michigan, Ann Arbor, 2010  
Clinical Associate Professor, NYU 2012 – 2020  
Current: Clinical Professor, NYU 2020 – present
- (17) **Dr. Niels ten Brummelhuis** (MW Group: 2011 – 2013)  
Ph.D., Max Planck Institute, Adlershof, Germany, 2011  
Current: Habilitant Humboldt University, Germany 2013 – present
- (18) **Dr. Jonas Dimroth** (MW Group: 2012 – 2014)  
Ph.D., Technical University Berlin, Berlin, Germany, 2011  
Current: Clariant 2015 – present
- (19) **Dr. Rossella Tarallo** (MW Group: 2011 – 2012 and 2013 – 2015)

Ph.D., Universita' di Napoli "Federico II", Napoli, Italy, 2013  
Food Safety and Quality Assurance Supervisor 2017 – 2018  
Lecturer Turro College 2017 – 2018  
Adjunct Professor St Johns University 2018 – 2020  
Current: Chemistry Teacher Abraham Joshua Heschel High School 2020 – present

- (20) **Dr. Elizabeth Elacqua** (MW Group: 2013 – 2017)  
Ph.D., University of Iowa, 2012  
Current: Assistant Professor, Department of Chemistry, The Pennsylvania State University  
2017 – present
- (21) **Tyler Womble** (MW Group: 2018 – 2019)  
Ph.D., Carnegie Mellon University, Pittsburg, PA 2017  
Current: Shell 2019 – present
- (22) **Carolynne Braga** (MW Group: 2019 – 2020)  
Ph.D., Unicamp, Brazil, NY 2016  
Current: Unicamp

*GRADUATE STUDENTS WHO GRADUATED WITH A PH.D.*

2004

- (1) **Dr. Amy Meyers** (MW Group: 2000 – 2004)  
B.S., University of West Florida, 2000  
Ph.D., Georgia Institute of Technology, 2004  
Thesis: “*The Design and Synthesis of Metal-Functionalized Poly(norbornene)s for Potential Use in Light-Emitting Diodes*”  
Department of Education GAANN Fellow, 2000 – 2001  
Office of Naval Research, Molecular Design Institute Fellow, 2001 – 2004  
Intel 2004 – 2007  
Current: McSwain Engineering 2008 – present
- (2) **Dr. Joel Pollino** (MW Group: 2000 – 2004)  
B.S., Siena College, 1999  
Ph.D., Georgia Institute of Technology, 2004  
Thesis: “*The Universal Polymer Backbone Concept*”  
Department of Education GAANN Fellow, 2000 – 2001, 2002 – 2003  
Graduate Student PERC Fellowship, 2001 – 2002  
DuPont Corporation 2004 – 2012  
Current: Solvay 2012 – present

2006

- (1) **Dr. Joseph Carlise** (MW Group: 2000 – 2006)  
B.S., Miami University, 2000  
Ph.D., Georgia Institute of Technology, 2006  
Thesis: “*Poly(norbornene) Supported Side-Chain Coordination Complexes: An Efficient Route to Functionalized Polymers*”  
Nalco 2006 – 2011  
Current: Cadbury 2011 – present

2007

- (1) **Dr. Warren Gerhardt** (MW Group: 2001 – 2007)  
B.S., Pennsylvania State University, 2001

Ph.D., Georgia Institute of Technology, 2007  
Thesis: “*Towards Supramolecular Multifunctional Architectures*”  
Department of Education GAANN Fellow, 2004 – 2006  
Current: Millikan Chemicals 2007 – present

- (2) **Dr. William Sommer** (MW Group: 2002 – 2007)  
B.S., University of New Orleans, 2001  
Ph.D., Georgia Institute of Technology, 2007  
Thesis: “*Supported Catalysts, from Polymers to Gold Nanoparticles Supports*”  
Aldrich Chemical Company 2007 – 2015  
Current: Carlo Erba 2015 – present

## 2008

- (1) **Dr. Clint R. South** (MW Group: 2004 – 2008)  
B.S., University of Northern Alabama, 2004  
Ph.D., Georgia Institute of Technology, 2008  
J.D., University of Virginia, 2014  
NSF-REU Fellow, Summer 2003 (Weck group)  
ACS Division of Organic Chemistry Fellowship, 2007 – 2008  
Thesis: “*Polymer Side-Chains as Arms for Molecular Recognition*”  
Ballard Spahr LLP, 2008 – 2012  
Clerk for the Court of Appeals for the Federal Circuit in Washington DC 2014 – 2015  
Current: Clerk Federal Court in Marshall, Texas 2016 – 2018  
Ballard Spahr LLP, 2016 – present
- (2) **Dr. Caroline Burd** (MW Group: 2002 – 2008)  
B.S., University of Miami, 2002  
Ph.D., Georgia Institute of Technology, 2008  
Thesis: “*Supramolecular Block and Random Copolymer Multifunctional Assemblies*”  
Current: Merchant and Gould LLP 2009 – present
- (3) **Dr. Poorva Goyal** (MW Group: 2003 – 2008)  
B.S., Indian Institute of Technology, India, 2003  
Ph.D., Georgia Institute of Technology, 2008  
M.B.A., Columbia, 2014  
Thesis: “*Development of Dendritic and Polymeric Scaffolds for Biological and Catalysis Applications*”  
Lipoid 2008 – 2012  
Current: Capgemini Consulting 2014 – present
- (4) **Dr. Alpay Kimyonok** (MW Group: 2003 – 2008)  
B.S., Bogazici University, Turkey, 2003  
Ph.D., Georgia Institute of Technology, 2008  
Thesis: “*Design and Synthesis of Side-Chain Functionalized Polymers for Electronics and Catalysis*”  
The Scientific and Technological Research Council of Turkey (TUBITAK), Turkey, 2009-2010  
TEKPOL Technical Polyurethanes Inc., Turkey 2010 – 2013  
Millikan Chemicals 2014 – 2017  
Current: Formlabs 2017 – present
- (5) **Dr. Kamlesh Nair** (MW Group: 2003 – 2008)  
B.S., University Institute of Chemical Technology, India, 2003  
Ph.D., Georgia Institute of Technology, 2008  
Thesis: “*Multi-functionalized Side-chain Supramolecular Polymers: A Methodology Towards Tunable Functional Materials*”

Celanese 2008 – 2015  
Current: Solvay 2015 – present

2009

- (1) **Dr. Si Kyung Yang** (MW Group 2005 – 2009)  
M.S., Korea University, Korea, 2005  
Ph.D., Georgia Institute of Technology, 2009  
Thesis: “*Orthogonal Functionalization Strategies in Polymeric Materials*”  
Postdoctoral Fellow, UIUC, Steve Zimmerman 2009 – 2012  
Current: Assistant Professor Chonnam National University, Korea 2012 – present

2012

- (1) **Dr. Hwayoon Jung** (MW Group: 2008 – 2012)  
B.S. Hallym, Korea, 2002  
M.S. Sogang, Korea, 2004  
Ph.D., New York University, 2013  
Thesis: “*Complex Macromolecular Architectures for Potential Biological Applications*”  
Current: LG, South Korea 2013 – present

2013

- (1) **Dr. Joy Romulus** (MW Group: 2007 – 2013)  
B.S., State University of New York, Binghamton, 2006  
Ph.D., New York University, 2013  
Kramer Fellow, 2010 – 2011  
Thesis: “*Exploiting Supramolecular Interactions for the Intramolecular Folding of Side-Chain Functionalized Polymers and Assembly of Anisotropic Colloids*”  
Postdoctoral Fellow, Stuart Rowan’s group Case Western (2013 – 2014)  
Ashland, Inc. 2014 – 2016  
Current: Lipoid 2016 – present
- (2) **Dr. Yufeng Wang** (MW Group 2009 – 2013)  
B.S. Beijing University, China, 2008  
Ph.D., New York University, 2013  
Horizon Fellow, 2012 – 2013  
Thesis: “*Colloids with Valence: Fabrication & Directed Assembly*”  
Postdoctoral Fellow, David Pine’s group NYU (2013 – 2014)  
Postdoctoral Fellow, Jeremiah Johnson’s group MIT (2014 – 2016)  
Current: Assistant Professor, University of Hong Kong 2016 – present

2014

- (1) **Dr. Thomas Patrick Carberry** (MW Group: 2010 – 2014)  
B.S. Fordham University, New York 2009  
Ph.D., New York University, 2014  
Kramer Fellow, 2012 – 2013  
Thesis: “*Design and Synthesis of Newkome-type Peptidodendrimers towards Biomedical Applications*”  
Adjunct Professor, St John’s University  
Current: Adjunct Professor, Cooper Union
- (2) **Dr. Michael Kahn** (MW Group: 2007 – 2014)  
B.S. State University of New York, Stony Brook, 2001  
M.S. State University of New York, Stony Brook, 2003

Ph.D., New York University, 2014  
Kramer Fellow, 2011 – 2012  
Thesis: “*Rational Design of Polymer-Supported Cobalt (III) Salen Catalysts for the Hydrolytic Kinetic Resolution of Terminal Epoxides*”  
Current: Lipoid 2014 – present

- (3) **Dr. Dorothee E. Borchmann** (MW Group: 2011 – 2014)  
Diploma Johannes Gutenberg University, Mainz, Germany 2009  
Ph.D., New York University, 2014  
Sokol Fellow, 2013 – 2014  
Thesis: “*Functionalized Poly(lactide)s: Synthesis, Characterization and Biological Applications*”  
Current: Clariant 2014 – present

#### 2015

- (1) **Dr. Yu Wang** (MW Group 2010 – 2015)  
B.S. University of Science and Technology, China, 2009  
Ph.D., New York University, 2015  
Dean’s Dissertation Fellowship, 2013 – 2014  
Thesis: “*Colloids with Directional and Reconfigurable Interactions*”  
PPG Industries 2015 – 2019  
Current: PepsiCo 2019 – present
- (2) **Dr. Jie Lu** (MW Group: 2011 – 2015)  
B.S. Nankai University, China  
Ph.D., New York University, 2015  
Thesis: “*Core-Shell Micelle-Based Nanoreactor for Catalytic Applications: Design, Synthesis and Catalytic Studies*”  
Evonik 2015 – 2018  
Current: Solvay 2018 – present

#### 2016

- (1) **Dr. Anna Croom** (MW Group: 2010 – 2016)  
B.S. North Carolina State University, Raleigh, 2009  
Ph.D., New York University, 2016  
Thesis: “*Synthesis of Poly(isocyanide)s as Helical Block Copolymers*”  
Current: Grant Industries 2016 – present

#### 2017

- (1) **Dr. Elizabeth Anne Kaufman** (MW Group: 2012 – 2017)  
B.S. Haverford College, Haverford, 2011  
Ph.D., New York University, 2017  
Thesis: “*Optimization of Architecture and Generation for Dendrimer Applications*”  
Current: BYK 2017 – present
- (2) **Dr. Xiaolong Zheng** (MW Group 2013 – 2017)  
B.S. Wuhan University, China, 2008  
Ph.D., New York University, 2017  
Sokol Fellowship 2016 –17  
Thesis: “*DNA-Directed Programmable Self-Assembly of Colloidal Superstructures*”  
Current: E-ink 2017 – present
- (3) **Dr. Kylie Manning** (MW Group: 2013 – 2017)

B.S. Susquehanna University, Selinsgrove, 2012  
Ph.D., New York University, 2017  
Kramer Fellowship 2016 – 17  
Thesis: “*Helical Poly(methacrylamide)s and Their Incorporation into Supramolecular Block Copolymers*”  
Senior Scientist Sandia National Laboratories 2017 – 2018  
Current: Dow Chemical Company 2018 – present

- (4) **Dr. Diane Lye** (MW Group: 2012 – 2017)  
B.S. Oberlin College, Oberlin, OH 2011  
B.M. Oberlin Conservatory, Oberlin, OH 2011  
Ph.D., New York University, 2017  
Thesis: “*The Synthesis, Self-Assembly, and Morphology of Supramolecular and Covalent Main-Chain Block Copolymers*”  
Avon 2017 – 2019  
Current: Gilead Sciences Inc. 2019 – present

### 2018

- (1) **Dr. Aaron Cohen** (MW Group: 2013 – 2018)  
B.S., Rensselaer Polytechnic Institute, Troy, NY 2012  
Ph.D., New York University, 2018  
Kramer Fellowship 2016 – 17  
Thesis: “*The Synthesis, Self-Assembly, and Application of Functionalized Multicompartment Micelles*”  
Current: Colgate 2018 – present

### 2019

- (1) **Dr. Scott Pomarico** (MW Group: 2015 – 2019)  
B.S., Fordham University, New York City, NY 2014  
Ph.D., New York University, 2019  
Thomas N. Jenkins Fellowship 2018 – 2019  
Thesis: “*Functionalized Helical Poly(isocyanide)s and Their Incorporation into Covalent and Supramolecular Block Copolymers*”  
Current: Croda Inc. 2019 – present

### 2020

- (1) **Dr. Mingzhu Liu** (MW Group: 2016 – 2020)  
B.S., University of Science and Technology (USTC), China, 2015  
Ph.D., New York University, 2020  
Thesis: “*Customizing Colloids for Programmable Assembly*”  
Current: Postdoc University of Pennsylvania 2020 – present
- (2) **Dr. Cicely Shillingford** (MW Group: 2016 – 2020)  
B.S., University of Waterloo, Waterloo, Canada, 2015  
Ph.D., New York University, 2020  
NSF Graduate Research Fellowship 2016 – 2019  
Thesis: “*Advances in the Capillary Assembly of Colloids*”  
Current: Formulation Scientist at Ro 2020 – present
- (3) **Dr. Michael Peter Küpfert** (MW Group: 2016 – 2020)  
B.S., SUNY Purchase, Purchase, NY 2015  
Ph.D., New York University, 2020  
Thesis: “*Compartmentalization and Tunable Self-Assembly of Core-Shell Micelle Nanoreactors*”  
Current: Lanxess 2021 – present

GRADUATE STUDENTS WHO GRADUATED WITH A M.S.

- (1) **Emel Eren** (MW Group: 2004 – 2006)  
B.S., Bogazici University, Turkey, 2004  
M.S., Georgia Institute of Technology, 2006
- (2) **Mary Nell Higley** (MW Group: 2001 – 2006)  
B.S., Agnes Scott College, 2001  
M.S., Georgia Institute of Technology, 2007  
Current: Instructor at Agnes Scott College
- (3) **Kimberly A. Arrowood** (MW Group: 2005 – 2009)  
B.S., Kennesaw State University, 2005  
M.S., Georgia Institute of Technology, 2009  
Current: Instructor at Kennesaw State University
- (4) **Zhenzi Mi** (MW Group: 2009 – 2010)  
B.S. Tianjin University, China, 2008  
M.S., New York University, 2010
- (5) **Victor Pinon III** (MW Group: 2005 – 2012)  
B.S., Our Lady of the Lake University, 2005  
Current: Sandia National Laboratories
- (6) **Federica Morgia** (MW Group: 2015 – 2016)  
B.S. UCLA, 2014  
M.S., New York University, 2017  
Thesis: “*Grafting-From Ring-Opening Polymerization of Biodegradable Poly(ester) Bioconjugates*”
- (7) **Jianing Xu** (MW Group: 2017 – 2019)  
B.S., Syracuse University, Syracuse, NY 2016  
M.S. New York University, 2019  
Thesis: “*Synthesis and Self-Assembly of Sequence-Defined Macromolecules through Multicomponent Reactions: Towards Well-Defined Secondary Structure*”
- (8) **Doha Khan** (MW Group: 2019 – 2020)  
M.S. New York University, 2021  
Thesis: “*Three Dimensionally Printed Collagen Scaffolds: An In Vitro Study*”

VISITING SCIENTISTS

- (1) **Johannes Broichhagen** (MW Group: 2008 – 2009)  
Diploma, University of Erlangen, Germany, 2008  
Ph.D. Ludwig Maximilian University, München, Germany 2015  
Postdoctoral fellow, École Polytechnique Fédérale de Lausanne (EPFL), 2015 – 2017  
Current: Group Leader, Max-Planck Institute for Medical Research, Heidelberg, 2015 – present
- (2) **Phillip Leippe** (MW Group: 2013 – 2014)  
B.S., Ludwig Maximilian University, München, Germany  
Current: Graduate student, Trauner Lab, Ludwig Maximilian University, München, Germany
- (3) **Anderson de Jesus Bonon** (MW Group: 2013 – 2014)  
M.S., University of Campinas (UNICAMP), Brazil  
Ph.D., University of Campinas (UNICAMP), Brazil
- (4) **Helena Göransson** (MW Group: 2015)  
M.S. KTH Sweden 2015

Current: Sherwin-Williams 2015 – present

- (5) **Caren Wanzke** (MW Group: 2015 – 2016)  
B.S., Ludwig Maximilian University, München, Germany (2016)  
Current: Ph.D. Student, Technical University München, Germany
- (6) **Lauren Young** (MW Group: 2015 – 2016)  
Current: Dental School, Temple University
- (7) **Moritz Wozar** (MW Group: 2017)  
Current: Graduate Student, University of Würzburg, Germany
- (8) **Anna Timofeeva** (MW Group: 2017 – 2018)

*UNDERGRADUATE STUDENTS*

- (1) **Jacob Adams** (MW Group: 2001 – 2002)  
B.S., Georgia Institute of Technology, 2002  
Ph.D. University of Texas at Austin, 2008  
MRS Undergraduate Materials Research Initiative Award, 2002  
NSF-REU Fellow, Summer 2002  
Current: Proctor and Gamble
- (2) **Shyam Bohra** (MW Group: 2004)  
B.S., Georgia Institute of Technology, 2006
- (3) **Eric Hollebeak** (MW Group: 2001 – 2003)  
B.S., Georgia Institute of Technology, 2005
- (4) **Julia Nolan** (MW Group: 2001)  
B.S., University of California at Davis, 2003  
NSF-REU Fellow, Summer 2001
- (5) **Vijay Sekaran** (MW Group: 2003)  
B.S., Georgia Institute of Technology, 2005
- (6) **Tosin A. Ige** (MW Group: 2003)  
B.S., Georgia Institute of Technology, 2006
- (7) **Rachelle J. Lodestar** (MW Group: 2007 – 2009)  
B.S., New York University, 2009  
DURF Fellow, 2008  
Georgetown Medical School
- (8) **Rachel Ko** (MW Group: 2008 – 2009)  
B.S., New York University, expected 2010  
DURF Fellow, 2009
- (9) **Nicholas Koch** (MW Group: 2008 – 2009)  
B.S., New York University, 2009
- (10) **Sonal N. Patel** (MW Group: 2008 – 2010)  
B.S., New York University, 2010  
DURF Fellow, 2009  
M.D., University of Southern Illinois (2014)  
Current:
- (11) **Marcel Said** (MW Group: 2008 – 2010)  
B.S., New York University, 2010



Current: Graduate student in chemistry, Georgia Institute of Technology

- (12) **Nina Schuchman** (MW Group: 2008 – 2012)  
B.S., New York University, 2011  
DURF Fellow, 2009  
Departmental Scholar Award, 2011  
George Granger Brown Award, 2011  
Outstanding Senior Honor Thesis, 2011  
Albert S. Borgman/Phi Beta Kappa Thesis Prize for the best Honors Thesis in the Sciences, 2011
- (13) **Alexander Taub** (MW Group: 2011 – 2012)  
B.S., New York University, 2012  
Current: Graduate student in Chemistry at Case Western Reserve University
- (14) **Jaroslav Jaracz** (MW Group: 2011 – 2013)  
B.S., New York University, expected 2013  
Current: Graduate student in mathematics at SUNY Stony Brook
- (15) **Eric Taub** (MW Group: 2011 – 2013)  
B.S., New York University, 2013  
M.S., New York University, 2014
- (16) **Tarikul Islam** (MW Group: 2011 – 2013)  
B.S., New York University, 2014
- (17) **Sarha Avendano** (MW Group: 2012 – 2014)  
B.S., New York University, 2014
- (18) **Linus H Liang** (MW Group: 2012 – 2014)  
B.S., New York University, 2014  
Current: Dental School, Temple University
- (19) **Madeleine Wong** (MW Group: 2014 – 2016)  
B.S., New York University, 2016
- (20) **Xinjie Qiu** (MW Group: 2016 – 2018)  
B.S., New York University, 2018  
DURF fellow, 2018
- (21) **Olivia Kathryn Cullen** (MW Group: 2016 – 2018)  
B.S., New York University, 2019  
DURF fellow, 2018  
Marion Cohen Griffel Research Scholar, 2018
- (22) **Scott Cosgun** (MW Group: 2018)  
B.S., New York University, 2019  
DURF fellow, 2018
- (23) **Brandon Kim** (MW Group: 2018 – 2020)  
B.S., New York University, 2020
- (24) **Maryam Hashmi** (MW Group: 2018 – 2020)  
B.S., New York University, 2020

*REU UNDERGRADUATE STUDENTS*

- (1) **Joakim Stenlid** (MW Group: 2011)

- B.S., KTH Stockholm, 2012  
Current: Graduate Student KTH
- (2) **Treston Silva** (MW Group: 2012)  
B.S., Chaminade University, 2014  
Current: Hawaiian Humane Society
- (3) **Melissa Porter** (MW Group: 2013)  
B.S., Xavier University, 2015  
Current: Graduate Student LSU
- (4) **Timothy Bumpus** (MW Group: 2014)  
B.S., Luther University, 2016  
Current: Graduate Student Cornell University
- (5) **Daniel Estabrook** (MW Group: 2015)  
B.S., UMass Amherst, 2015  
Current: Graduate Student UCLA
- (6) **Catherine Moran** (MW Group: 2017)  
B.S., University of Pittsburgh, 2019
- (7) **Landon Kilgallon** (MW Group: 2018)  
B.S., RPI, 2019
- (8) **Kathryn Kingsbury** (MW Group: 2019)  
B.S., Fordham University, 2021
- (9) **Anna Smirnova** (MW Group: 2019)  
B.S., Emory University, 2022