PRESENTATIONS (GREEN = UNDERGRADUATES; RED = GRADUATE STUDENTS; Blue = PDFs)

AT MEETINGS, CONTRIBUTED


388 **Sijia Zheng** and Michael A. Brook*, *Silicone/Saccharide composites using thiol-ene “click”*, 22nd ACS Green Chemistry Institute, Portland OR, June 2018.

387 **Ayodele Fatona**, Jose Moran-Mirabal, and Michael A. Brook*, *Functional silicone-cellulose hybrid nanocomposites derived from thioacetals*, 22nd ACS Green Chemistry Institute, Portland OR, June 2018.


384 **Robert Bui**, and Michael A. Brook* *Vanillin-Crosslinked Dynamic Silicone Elastomers*, 22nd ACS Green Chemistry Institute, Portland OR, June 2018.


381 **Alyssa Schneider** and Michael A. Brook*, *Controlled Single-Step Polymerization of ABA-type Silicone Block Copolymers and Their Use in High-Throughput Elastomer Synthesis*, 101st Canadian Chemistry Conference, Edmonton AB May 2018.


Ayodele Fatona, Jose Moran-Mirabal, and Michael A. Brook*, Functional silicone networks via thioacetal linkages, 18th International Symposium on Silicon Chemistry (ISOS XVIII), Jinan China, Aug. 6-10, 2017 (poster withdrawn – no visa issued by China).

Jennifer Morgan, and Michael A. Brook*, Incorporating Highly Branched Silicone Oils into Gels, 18th International Symposium on Silicon Chemistry (ISOS XVIII), Jinan China, Aug. 6-10, 2017 (won a poster prize).

Alyssa Schneider, Mengchen Liao and Michael A. Brook, Controlling Structure of Well-Defined Block Copolymer Silicones in a Single-Step One-Pot Synthesis, 18th International Symposium on Silicon Chemistry (ISOS XVIII), Jinan China, Aug. 6-10, 2017.

Scott Laengert and Michael A. Brook*, Sequential Funtionalization of a Natural Crosslinker Leads to Designer Silicone Networks, 18th International Symposium on Silicon Chemistry (ISOS XVIII), Jinan China, Aug. 6-10, 2017. 45th Southern Ontario Undergraduate Student Chemistry Conference (SOUSCC); 10th Annual Undergraduate Research Symposium for the Western New York section of the American Chemical Society (WNYACS).

Shuai Liang, Sijia (Scarlet) Zheng, Jennifer Morgan, Yang (Daniel) Chen and Michael A. Brook*, MDTQ Resins, 18th International Symposium on Silicon Chemistry (ISOS XVIII), Jinan China, Aug. 6-10, 2017 (won a ‘Silicon Slam’ prize).

Yang Chen and Michael A. Brook, Rendering silicone elastomer surfaces long-term wettable with low protein adsorption by tethering silicone surfactants, 18th International Symposium on Silicon Chemistry (ISOS XVIII), Jinan China, Aug. 6-10, 2017.

Sijia (Scarlet) Zheng, Yang (Daniel) Chen and Michael A. Brook*, 3-D Printable, Rapid Cure Silicone Elastomers Prepared Using Thiol-ene “Click” Chemistry, 18th International Symposium on Silicon Chemistry (ISOS XVIII), Jinan China, Aug. 6-10, 2017.


Mengchen Liao, Yang (Daniel) Chen and Michael A. Brook* A simple hydrolytic method to prepare silicone elastomers, 18th International Symposium on Silicon Chemistry (ISOS XVIII), Jinan China, Aug. 6-10, 2017.

Piotr Mazurek; Michael A. Brook; Anne Ladegaard Skov, Glycerol-silicone elastomers as active membranes for wound dressings and beyond, OL21: 11th International Workshop on Silicone Polymers 2017, Snekkersten Denmark, July 2017.

Yang Chen; Michael A. Brook, Silicone surfactants based on natural hydrophiles, OL23, 11th International Workshop on Silicone Polymers 2017, Snekkersten Denmark, July 2017.

Cody Gale; Brandon Chin; Daniel Graiver; Michael A. Brook, Synthetic Routes to Silicone-Modified Soybean Oil Copolymers, P15, 11th International Workshop on Silicone Polymers 2017, Snekkersten Denmark, July 2017.
Nicole Amaral; Madiha Khan; Sarah Celeste; Yang Chen; Michael A. Brook, Should We Sugarcoat it? Silicone Elastomers Modified with Pullulan and Glycerol, P16, 11th International Workshop on Silicone Polymers 2017, Snekkersten Denmark, July 2017.

Scott Laengert; A. Schneider; E. Lovinger; Y. Chen; M.A. Brook (Best oral presentation from a student), OL13, Sequential Functionalization of a Natural Cross-linker Leads to Designer Silicone Networks, 11th International Workshop on Silicone Polymers 2017, Snekkersten Denmark, July 2017 (Best student oral presentation).

Benjamin Macphail; Michael A. Brook, Saccharide-Binding Silicones, OL16, 11th International Workshop on Silicone Polymers 2017, Snekkersten Denmark, July 2017.

Scott E. Laengert, Alyssa F. Schneider, Eric Lovinger, Yang Chen and Michael A. Brook, Sequential Functionalization of a Natural Cross-linker Leads to Designer Silicone Networks, 48th Silicon Symposium, Philadelphia, PA, June 2017.


Nicole M. Amaral, Madiha Khan, Yang Chen and Michael A. Brook, Should We Sugarcoat It? Pullulan-doped Silicone Elastomers, 100th Canadian Chemistry Conference and Exhibition, Toronto, Canada, May 2017 (Undergraduate Award).

Yang Chen and Michael A. Brook, Tethering silicone surfactants onto silicone elastomers leads to long-term wettability, 100th Canadian Chemistry Conference and Exhibition, Toronto, Canada, May 2017.


Cody B Gale, Brandon A. Chin and Michael A. Brook, Synthetic Routes to Silicone-Modified Soybean Oil Copolymers, 100th Canadian Chemistry Conference and Exhibition, Toronto, Canada, May 2017.

Sijia (Scarlett) Zheng and Michael A. Brook, 3D printable, rapid cure silicone elastomers prepared using thiol–ene “click” chemistry, 100th Canadian Chemistry Conference and Exhibition, Toronto, Canada, May 2017.

Scott E. Laengert, Alyssa F. Schneider, Eric Lovinger, Yang Chen and Michael A. Brook, Sequential Functionalization of a Natural Crosslinker Leads to Designer Silicone Networks, 100th Canadian Chemistry Conference and Exhibition, Toronto, Canada, May 2017.

Mengchen Liao, Yang Chen, and Michael A. Brook, A hydrolytic method to prepare complex silicone elastomers, 100th Canadian Chemistry Conference and Exhibition, Toronto, Canada, May 2017.

Jennifer Morgan, Tong Chen, and Michael A. Brook, Novel Synthesis and Branching of a Spirocyclo Silicone, 100th Canadian Chemistry Conference and Exhibition, Toronto, Canada, May 2017 (MSED Award).


Jennifer Morgan, Tong Chen, Michael A. Brook, Modifying the Viscosity of Silicone Polymers Through the Use of High Density Branches, 47th Silicon Symposium, Portland, OR, June 2016.


Lasowski, F., Rambarran, T., Brook, M.A. Sheardown, H.,* Compatibility of PEG-containing siloxane materials by metal-free click-chemistry, 10th World Biomaterials Congress, May 17-22, 2016, Montreal Canada.

Ayodele Fatona, Yang Chen, Michael A. Brook, and Jose Moran-Mirabal, Structuring and in-mould modification of PDMS surfaces for self-driven microfluidic channels, 10th World Biomaterials Congress, May 17-22, 2015, Montreal Canada.

Yang Chen and Michael A. Brook, Water Wettable Silicone Elastomer Biomaterials Surfaces, 10th World Biomaterials Congress, May 17-22, 2016, Montreal Canada.

Madiha F. Khan, Michael A. Brook, Acrylic polymers bearing superwetting silicone surfactants are candidates for bacterial adhesion-resistant biomaterials, 10th World Biomaterials Congress, May 17-22, 2016, Montreal Canada.

Benjamin Macphail, Laura Zepeda-Velazquez, Michael Brook, Synthesis and Mucin Binding to Silicone Boronic Acid Elastomers, 10th World Biomaterials Congress, May 17-22, 2016, Montreal Canada.

Jennifer Morgan, Tong Chen, and Michael A. Brook, Using Highly Branched Silicone Oils to Tailor the Properties of Gels, 251st American Chemical Society Meeting, Mar. 13-17, 2016, San Diego, California.

Benjamin Macphail, Laura Zepeda-Velazquez, Michael A. Brook, Synthesis of Spread and Set Silicone Boronic Acid Elastomers Activated by Contact with Aqueous Surfaces, American Chemical Society Meeting, Mar. 13-17, 2016, San Diego, California.

Brook, Michael A., Zhang, Jianfeng, Reductive silylation of lignin: A route to oligomers and green composites, Symposium on Sustainable Conversion of lignin to Value-Added


309. Laura Dodge, Yunqing Chen and Michael A. Brook,* Utilizing Reversible Lewis Acid/Base Crosslinking to Make Recyclable Silicone-containing Materials International Symposium on Silicon Chemistry (ISIS XVII), Berlin, Germany, Aug. 2014.

308. Abidur Rahman and Michael A. Brook,* Shear thinning properties of poly(dimethylsiloxane) and poly(ethylene glycol) ABA and BAB block copolymers, International Symposium on Silicon Chemistry (ISIS XVII), Berlin, Germany, Aug. 2014.

307. Ayodele Fatona, Jose Moran-Mirabal,* and Michael A. Brook,* Fabrication of Amphiphilic PDMS Microarrays via Soft Lithography International Symposium on Silicon Chemistry (ISIS XVII), Berlin, Germany, Aug. 2014.

306. Talena Rambarran, Ferdinand Gonzaga, Michael Coulson, Michael A. Brook,* Adhesive Silicone Interfaces though Metal-Free Click Chemistry, International Symposium on Silicon Chemistry (ISIS XVII), Berlin, Germany, Aug. 2014.


304. Marlena Whinton and Michael Brook,* Microemulsions as Templates for Nanostructured Hydrogels International Symposium on Silicon Chemistry (ISIS XVII), Berlin, Germany, Aug. 2014.
303. Alyssa Schneider, Elizabeth Laidley, and Michael Brook,* Controlling Arylene Polymethylsiloxanes in Network Structures International Symposium on Silicon Chemistry (ISIS XVII), Berlin, Germany, Aug. 2014.


301. Yang Chen and Michael A. Brook, A simple approach to achieve highly wettable and long-term stable silicone International Symposium on Silicon Chemistry (ISIS XVII), Berlin, Germany, Aug. 2014.


294. M.A. Brook and Y. Chen, Facile in-channel hydrophilic modification of PDMS-based microfluidic channels (poster), Biosensors 2014, Melbourne Australia, May 2014.

293. T. Rambarran, F. Gonzaga, and M. A. Brook, Assembly of New Silicone Architectures from a Metal-Free Click Strategy, 96th Canadian Chemistry Conference, Quebec, May 2013.


290. T. Rambarran, F. Gonzaga, M. A. Brook, Metal-Free Click Assembly of Amphiphilic Silicone Architectures, 96th Canadian Chemistry Conference, Quebec, May 2013.


287. A. Szelag, T.P. Bender, C. Bonnier, M.A. Brook, Functionalization of Indium Tin Oxide surface via Piers-Rubinsztajn process, 96th Canadian Chemistry Conference, Quebec, May 2013.


269. **Anna Szela**g and Michael A. Brook *Modification of Surfaces via the Piers-Rubinsztajn Reaction*, 44th Silicon Symposium, St. Catharines, Canada, June 14-16, 2012.


244 Zhang, J.; Chen, Y.; Brook, M.A. *Thiol Functionalized PDMS Surface for Improvement of Hydrophilicity*, 16th International Symposium on Silicon Chemistry (ISOS XVI), Hamilton Canada, Aug. 14-18, 2011, Abs. 123.


T. Rambarran, F. Gonzaga and M.A. Brook, *Using Interfacial Click Chemistry to Structure Silicone Elastomers*, 16th International Symposium on Silicon Chemistry (ISOS XVI), Hamilton Canada, Aug. 14-18, 2011, No Abs. number, last minute invited oral presentation.


Vinodh Rajendra, Ferdinand Gonzaga, Michael A. Brook, *Controlling the morphology of silica particles formed in non-aqueous silicone (pre)elastomer dispersions*, 85th ACS Colloid and Surface Science Symposium, Montreal, June 2011, Abs. 565.


T. Rambarran, F. Gonzaga and M. A. Brook, *Synthesis and Modification of Silicone Elastomers via the Huisgen 1,3-Dipolar CycloadDITION*, 94th Canadian Chemical Conference, Montreal, June 6, 2011, Abs. 1529.


M. Pascoal, F. Gonzaga and M.A. Brook, *Derivatization of Silicone Polymers via 1,3-Dipolar Cydocadditions of Activated Alkynes*, 94th Canadian Chemical Conference, Montreal, June 6-10, 2011, Abs. 1366.


222 Ferdinand Gonzaga and Michael A. Brook, *Metal-free Click chemistry: a versatile and efficient access to new functional polysiloxanes and elastomers*, Silicon-Containing Polymers and Nano-Composites, December 11 - 14, 2010, San Diego California USA.


219 Alan Vanderkooy and Michael A. Brook, *Gold-Silica Core-Shell Nanoparticles Used in Concert with Bacteriophage for Bacterial Detection*, 28th Canadian Biomaterials Society, Queen's University, June 2010 (first prize, poster).

218 A.S. Fawcett, M.A. Brook, *Photodimerization of Cinnamic Acid-Modified Silicones for Reversible Crosslinking*, 28th Canadian Biomaterials Society, Queen's University, June 2010.


214 Lamees Nayef and Michael A. Brook *Protein denaturation is particularly facilitated by low molecular weight silicones in oil in water (O/W) emulsions*, 93rd Canadian Chemistry Conference and Exhibition, Toronto, ON May 29-June 2, 2010.

213 Marlena Whinton, Michael A. Brook, Lamees Nayef and Helen So, *The Internal Structuring of a Silicone Polymer for Controlled Release*, 93rd Canadian Chemistry Conference and Exhibition, Toronto, ON, May 29-June 2, 2010. Rubinsztajn


210 Laurent Fertier, Michael A. Brook, *Surface modification for supported bacteriophage on silica surface*, 93rd Canadian Chemistry Conference and Exhibition, Toronto, ON, May 29-June 2, 2010.


Y. Shao and M.A. Brook, Structuring Silicone Interfaces, 92nd Canadian Chemistry Conference, Hamilton Canada June 2009, Abstract 1568, oral.


A.S. Fawcett, M.A. Brook, *Synthesizing a Vitreous Humor*, WISE, McMaster University, March 2009.


172. **Weian Zhao, Jeffrey Lam, William Chiuan, Michael A. Brook and Yingfu Li1, A Generic Colorimetric Biosensing Assay Using Surface Charge-Mediated Gold Nanoparticle Aggregation**, Biocontact 2007, Quebec City, Oct. 2007, invited poster.


162 Voss, Rebecca; Chen, Yang; Brennan, John D.; Brook, Michael A. *A biocompatible process for the preparation of macro-porous silica materials*. 38th Central Regional Meeting of the ACS, Frankenmuth, MI, United States, CRM 341 May 16-20, 2006.


159. Zhao, Weian; Pacard, Elodie; Chaix, Carole; Pichot, Christian; Brook, Michael A., *Surface Functionalization of Silica Nanoparticles for Direct Synthesis of DNA Capture Oligomers,*
38th Central Regional Meeting of the ACS, Frankenmuth, MI, United States, CRM 297 May 16-20, 2006.


126. Michael A. Brook, Paul Zelisko, Hong Chen, Muxin Liu, Amro Ragheb, Michael Hrynyk, and Heather Sheardown, **Interfacial Control with Proteins at Silicone/Water Interfaces**, Polymerisation in Dispersed Media, PDM April 2004, Lyon, France, Abstract O5.5.

125. Elodie Pacard, Michael A. Brook, Amro M. Ragheb, Carole Chaix, and Christian Pichot, **Elaboration of Silica/polymer hybrid support for oligonucleotide synthesis and biodiagnostics**, Polymerisation in Dispersed Media, PDM April 2004, Lyon, France.


122. Masaaki Amako, Michael A. Brook, **Ring Flipping Behavior of O(SiMe_2-η^5-Indenyl)_2Fe complexes and Their Co-Polymerization with Silicones**, OMCOS 12, Toronto, July 2003, Abstract.

121. Stefanie A. W. Mortimer, Paul M. Zelisko, and Michael A. Brook, **Protein Deposition On Modified Silica Surfaces**, 36th Organosilicon Symposium, Akron (won best student prize).

120. Paul M. Zelisko and Michael A. Brook, **The Properties Of Human Serum Albumin And Triethoxysilyl-Terminated Polydimethylsiloxane At The Interface Of Water-In-Silicone Oil Emulsions**, 36th Organosilicon Symposium, Akron.


