Invited Lectures at Universities

139 Michael A. Brook, Sijia Zheng, Miguel Melendez, Yang Chen, Mengchen Liao,	
Cody B. Gale and Robert Bui, University of Ghent, Belgium	May 2022
Controlling silicone material properties using sulfur chemistry	•
138 Michael A. Brook, Guanhua Lu, Akop Yepremyen, Khaled Tamim, Yang Chen, Sijia	Zheng,
Cody B. Gale and Angela Li, Danish Technical University,	May 2022
Oxidants and Antioxidants in Silicones	- / -
137 Michael A. Brook, Technicological University of Dublin, Ireland	May 2022
Waste Materials Are Not (Necessarily) a Compromise: Reinforcing Fillers	
136 Michael A. Brook (ICUF D'Arcy McGee Beacon Fellowship Lecture),	
	Mar. 2021
How Can Silicones Contribute to Sustainability? Dissolving Automobile Tires	
· -	Sept. 2020
Moving Towards Sustainable Silicones, Some Nice Surprises	Jept. 2020
-	Feb. 2020
134 <u>Michael A. Brook</u> , Yang Chen, Andrea Feinle, Kyle Faiczak, Ayodele Fatona,	rep. 2020
Adrien Lusterio, Jose Moran-Mirabal, Adnan Murad, Andrew Osamudiamen,	
David Valentini, and Sijia Zhang, Danish Technical University, Lyngby Denmark.	
Combining Saccharides with Silicone Polymers to Improve Sustainability	NA- 2040
133 Michael A. Brook, Universiteit van Amsterdam	May 2019
The Greening of Silicones: Exploiting Natural Materials	
	April 2018
Tailoring Silicone Properties for Interfacial Applications: Limitations and Opportunitie	
	1arch 2018
The Greening of Silicones: Exploiting Natural Materials	
130. Pittsburg State University, Pittsburg Kansas, Michael A. Brook,*	Jan. 2018
Scott E. Laengert, Ben Macphail, Robert Bui, Sijia Zheng, Alyssa F.	
Schneider, Mengchen Liao, Yang Chen and Jianfeng Zhang	
The Greening of Silicones: Exploiting Natural Materials	
129. Pittsburg State University, Pittsburg Kansas, Michael A. Brook,*	Jan. 2018
Scott E. Laengert,Robert Bui, Sijia Zheng, Jennifer Morgan, Alyssa F. Schneider, N	√lengchen
Liao, and Yang Chen	
Distinguished Polymer Lecture	
An Organic Chemist's View of Silicones: Searching for Better Control	
128. Brockhouse Institute for Materials Research, McMaster University	Jan. 2018
Michael A. Brook,* Scott E. Laengert, Ben Macphail, Robert Bui, Sijia Zheng, Alyssa F. S	Schneider,
Mengchen Liao, Yang Chen and Jianfeng Zhang,	
Should BIMR Worry If Materials Are Green? The View of a Silicone Chemist	
127. Chemistry, Western University	Dec. 2016
Michael A. Brook*, Laura Zepeda-Velasquez, Marlena Whinton, Yang Chen, John B. Gr	ande,
Madiha F. Khan, Talena Rambarran, Ayodele Fatona and Jose Moran-Mirabal	
Water Responsive Silicone Polymers	
	Nov. 2016
Water Responsive Silicone Polymers	

125. Chemical Engineering, Danish Technical University	Apr. 2016	
Tempest in a C-Cup: Re-Regulating Breast Implants 124. Chemical Engineering, Danish Technical University	Apr. 2016	
Designing Silicones to Control Interfaces 123. Chemistry, University of Alberta	Oct. 2015	
Structuring Interfaces with Structured Siloxanes 122. Chemistry, Temple University Structuring Interfaces with Structured Siloxanes	March 2015	
121. Chemistry Wilfred Laurier, Waterloo ON, Synthetic Strategies to Manipulate Silicone Interfaces	Jan. 2015	
120. AlchemUS (Stellenbosch University Chemistry Society), Stellenbosch South Africa	Oct. 2014	
Breast Implants and Lawsuits: A Tempest in a C Cup?		
119. Chemical Engineering, Technical University of Denmark, Controlling Interfaces with Silicones	Nov. 2014	
118. Polymer Science and Chemistry, Stellenbosch University, South Africa Synthetic Strategies to Manipulate Silicone Interfaces		
117. Concordia University, Montreal New Strategies to Responsive Silicone Surfactants with Precise Structures	Jan. 2013	
116. McGill University, Montreal Why Can't Silicones Follow the New Polymer Paradigm? Making Precise Structure	Nov. 2012	
115. University of Massachusetts, Amherst Strategies to Structure Functional Silicones	Sep. 2012	
114. McMaster University, <i>The Imposter Syndrome</i> , Current Research in Engineering, Science and Technology Conference	Mar. 2012	
113. Queen's University, Chemical Engineering Interfacial Engineering Using Siloxanes	Feb. 2012	
112. CSIRO Melbourne Australia Why Don't People Like Silicones as Biomaterials (and what can we do about it)?	Apr. 2011	
111. INSA, Université de Lyon I, Lyon France Strategies for the Synthesis of Hydrophilic Silicones	March 2011	
110. Université Paul Sabbatier, Toulouse, France Strategies for the Synthesis of Hydrophilic Silicones	March 2011	
109. SUNY Buffalo, NY Interfacial Structuring Using Silicon Chemistry	March 2011	
108. CSIRO Melbourne Australia Interfacial Control: New Strategies for Functionalizing and Crosslinking Silicones	Feb. 2011	
107. School of Biomedical Engineering, McMaster University Strategies to Improve Silicone Elastomer Biocompatibility	Nov. 2010	
106. Soochow University, Suzhou, China	Oct. 2010	
Silicones: Strategies for Improved Biocompatibility 105. Institute of Chemical Industry of Forest Products, Nanjing China Structuring Siloxanes at Interfaces: Exploitation of Natural Materials	May 2010	
104. Beijing University of Chemical Technology	May 2010	

Structuring Siloxanes at Interfaces Surface Manipulation to Improve Silicone Bioco	ompatibility
103. Institute of Chemistry, Chinese Academy of Sciences	May 2010
Structuring Siloxanes: New Routes to Silica and Silicone Composites	
102.WISE (Women in Science and Engineering), McMaster University	March 2010
The imposter syndrome	
101. University of Toronto, Canada	Jan. 2010
Structuring Siloxanes at Interfaces	
100. BIMR, McMaster University	Oct. 2009
Surface Manipulation Strategies To Improve Silicone Biocompatibility	
99. CSIRO Melbourne Australia	May 2009
Controlled Synthesis at Silicone Interfaces: New Strategies for Improved Biocompo	atibility
98. Flinders University, Adelaide, Australia	May 2009
Synthesis of Structured Inorganic Materials Using Silicon-Based Surfactants	
97. Queensland University of Technology, Brisbane, Australia	May 2009
Controlled Synthesis at Silicone Interfaces: New Strategies for Improved Biocompo	atibility
96. Rensselaer Polytechnic Institute, Troy NY, The Reed Lecture	April, 2009
Controlled Synthesis at Silicone Interfaces: New Strategies for Improved Biocompo	atibility
95. Michael A. Brook, University of British Columbia (Pharmacy)	Oct. 2008
Using Silicones with Pharmaceutical Actives: Strategies for Protein Delivery	
94. Michael A. Brook, University of Western Ontario	May 2008
Using Silicones to Control Dynamic Interfaces: Silicone Biomaterials to Gold Crysto	als
93. Michael A. Brook, Case Western Reserve University,	Feb. 2008
Using Silicones to Control Dynamic Interfaces: Silicone Biomaterials to Gold Crysto	ıls
92. Michael A. Brook, Trent University, Peterborough, ON	Sept. 2007
Dynamic Interfaces: Synthetic Approaches to Controlling Morphology	·
91. Michael A. Brook, Department of Chemistry, Universidad Guanajuato,	Aug. 2007
Binding cells to silicone and TiO ₂ surfaces	-
90. Michael A. Brook, Queen's University, Belfast, N. Ireland	May 2007
Making Silicones More Biocompatible: Using Synthesis to Structure Biomedical Int	terfaces
89. Michael A. Brook, University of Limerick, Ireland	Apr. 2007
Dynamic Interfaces: Synthetic Approaches to Controlling Morphology	·
88. Michael A. Brook, Trinity College, Dublin, Ireland	Mar. 2007
Dynamic Interfaces: Synthetic Approaches to Controlling Morphology	
87. Michael A. Brook, NUI Galway, Chemistry, Ireland	Mar. 2007
Dynamic Interfaces: Synthetic Approaches to Controlling Morphology	
86. Michael A. Brook, University College Cork, Ireland	Mar. 2007
Dynamic Interfaces: Synthetic Approaches to Controlling Morphology	
85. Michael A. Brook, NCBES NUI Galway, Ireland	Jan. 2007
Making Silicones More Biocompatible: Using Synthesis to Structure Biomedical Int	
84. Michael A. Brook, McMaster University, BIMR	Nov. 2006
Using Synthesis to Structure Interfaces: Making Silica and Silicones Biocompatible	
83. Michael A. Brook, McMaster University, BIMR Summer Lecture Series	June 2006
Controlling interfaces for biomedical devices: using silica and silicones (with a con	
breast implants)	

82	Michael A. Brook, McMaster University, Chemical Engineering	March 2006.
U	sing Synthesis to Structure Interfaces: Making Silica and Silicones Biocompatibl	le
81	Michael A. Brook, McMaster University Undergraduate Chemistry Society	March 2006
Τ	he Imposter Syndrome: How to succeed (?) in spite of chemical ignorance	
80	Université de Montpellier, II, France	Jan. 2006
79	Brock University, Chemistry Department	Oct. 2004
78	University of Waterloo, Chemistry Department	Oct. 2004
С	ontrolling protein stability in silicones and silica: Synthesis of new biomaterials	
77	McMaster University, BIMR Summer Research Program Weekly Seminar Serie	es, June 2004
С	ompatibilizing proteins with silica and silicones (what do graduate students act	ually do?)
76	Institute of Chemistry, Chinese Academy of Sciences, Beijing	Nov. 2003
U	sing Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and Protein S	Structure
75	Qingdao University of Technology	Nov. 2003
St	ereocontrol Using Silyl Groups: Enantioselective Reductions and Claisen Rearra	ingements
74	Huazhong University of Science and Technology	Nov. 2003
U	sing Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and Protein S	Structure
73	Wuhan University of Technology	Nov. 2003
Р	rotein-Doped Mesoporous Silica for Drug Screening Applications	
72	Nanjing University	Nov. 2003
U	sing Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and Protein S	Structure
71	UWEB (University of Washington Engineered Biomaterials), Seattle,	May 2003
St	abilizing Proteins in Silica and Silicones	
70	Ian Wark Research Institute, University of South Australia, Adelaide, South Au	ustralia
	Michael A. Brook, Frank LaRonde, Mustafa Mohamed and Forrest Li	March 2003
St	tereocontrol Using Silyl Groups: Enantioselective Reductions and Claisen Rearra	ingements
69	Ian Wark Research Institute, University of South Australia, Adelaide, South Au	ustralia
	M. A. Brook, Dan Chen, Kui Guo, Zhang Zheng, John Brennan, and Paul Zelis	ko March
	2003	
Fo	ormation of Protein-Containing Controlled Pore Silica for Drug Discovery	
68	Perspectives on Silicon (6 hours lectures during a 30 hour short course), Ian V	Vark Research
	Institute, University of South Australia, Adelaide, South Australia	July 2002
67	Queensland University of Technology, Brisbane, Australia	June 2002
	ringing Organic Chemistry to Silicon-based Interfaces	
	University of Sydney, Australia	June 2002
	he Passivation of Silica and Protein/Water Interfaces Using Silane Coupling Age	ents and
	Functional Silicones.	
65	Flinders University, Adelaide, Australia	June 2002
	abilization of Water-in-Silicone Oil Emulsions: Surfactants Formed by the Interd	action of
	Proteins/enzymes and Functionalized Silicones	2
Р	reparing and Passivating Silica: Matching Surface Chemistry to Application	
	University of South Australia, Adelaide, Australia	June 2002
	he Passivation of Silica and Protein/Water Interfaces Using Silane Coupling Age	
-	Functional Silicones.	
63	McMaster University: Undergraduate Chemistry Series	March 2002
	· - · ·	

From Oral Vaccines to Breast Implants: What Happens When Proteins Meet Silic	ones?
62 Ecole Nationale Supérieure, Lyon, France	Feb. 2002
Protéines chez soi: Dans les silicones et dans la silice (New homes for proteins in silica)	silicones and
61 University of Dresden, Germany, Institute of Polymer Research	Feb. 2002
The passivation of silica and silicone surfaces using silane coupling agents and pl	
60 University of Toronto	Feb. 2001
Silicone/protein interactions: Modifying hydrophobic/hydrophilic interactions to	
protein and interfacial stability	control both
59 University of Windsor	Sept. 2000
Exploiting Extracoordinate Silicon: Enantioselective Reductions and Aldol Reaction	•
by Chiral Amines (and some Silicone-Protein Stuff)	
58 Institut National des Sciences Appliquées de Lyon	July 2000
Silicium à l'Interface: Silanes et Silicones Fonctionnalisés	July 2000
57 Institut Charles Sadron, Université Louis Pasteur	June 2000
Silicium à l'Interface: Silanes et Silicones Fonctionnalisés	June 2000
56 Universite de Bordeaux I	May 2000
Combining Silicones and Biopolymers: Controlling the Interface (en français)	May 2000
55 Ecole Normale Supérieure de Lyon	May 2000
Silicium à l'Interface: Silanes et Silicones Fonctionnalisés	1viay 2000
54 University of Twente	May 2000
	May 2000
Silicon at the Interface: New Surface Active Silanes and Silicones	May 2000
53 University of Amsterdam	May 2000
Exploiting Extracoordinate Silicone: Enantioselective Reductions and Aldol React	10115
Catalyzed by Chiral Amines	lune 1000
52 Kyoto University Chinal Estance and a star Undersidence Derived from Bidentate Linguide: Engetiesel	June 1999
Chiral Extracoordinate Hydrosilanes Derived from Bidentate Ligands: Enantiosele	ective
Reduction of Ketones	lune 1000
51 Kyoto Institute of Chemistry	June 1999
Gifts From Nature: New Materials From Silicones and Biopolymers	May 1000
50 Chinese University of Hong Kong	May 1999
Gifts From Nature: New Materials From Silicones and Biopolymers	NA- 1000
49 University of Hong Kong	May 1999
Chiral Extracoordinate Silanes: Catalytic and Enantioselective Reduction	
48 Hong Kong University of Science and Technology	May 1999
Chiral Extracoordinate Silanes Derived From Histidine: Catalytic and Enantioselec Reduction	ctive
47 McMaster University President's Stewardship "Over the Ivy Wall"	March 1999
Confusing Nature: What does Lemon Pledge have to do with Oral Vaccines?	
46 Chemical Engineering, McMaster University	Feb. 1999
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes	
45 Brock University	Feb. 1999
Stereoselective Reduction of Ketones by Histidine: Alkoxysilane Complexes	
44 Mount Allison University	Nov. 1998
•	

Confusing Nature: A Look at the Hydrophobization of Biopolymers Using S	Silanes and Silicones
43 University of New Brunswick	Nov. 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using S	Silanes and Silicones
42 Acadia University	Nov. 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using S	Silanes and Silicones
41 Dalhousie University	Nov. 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using S	Silanes and Silicones
40 McMaster University Board of Governers	Oct. 1998
Combining Silicones and Biopolymers: New Materials	
39 Telemark University, Porsgrunn, Norway	Feb. 1998
Silicone Degradation Mechanisms	
38 Swedish Institute for Pulp and Paper, Stockholm and	
Swedish Institute For Surface Science, Stockholm	Dec. 1997
Silane and Silicone Coupling Agent Chemistry: Are Biopolymer Surfaces Li	ke Siliceous Surfaces?
37 University of Toronto, Faculty of Pharmacy,	Oct. 1997
Using Silicon Chemistry in Drug Delivery: Prodrugs Based on Modified Silic	ca and Oral Protein
Delivery Using Silicones	
36 University of British Columbia	Sept. 1997
Modifying Biopolymers with Silanes and Silicones	
35 Brockhouse Institute for Materials Science, McMaster University	Jan. 1997
Hard and soft siloxanes: hydrosilsequioxane: platinum catalysts and silico	one: protein
copolymers	
34 McMaster Undergraduate Chemistry Club	
Silicon in Biology	Nov. 1996
Organosilanes as Protecting Groups: Different Approaches to the Stabilize	ation
of Small Molecules, Polymers, Transition Metals and Surfaces	
Université Paul Sabatier, Toulouse, France (3 lectures)	June 1996
33 Organosilanes in an Inorganic World and Inorganic Silicon in an Organ	ic World
32 What Happens When Silicon Meets Biology	
31 Stabilized Group 14 Cations	
Université de Bordeaux I, France, (3 lectures)	May 1996
30 Universidad del Pais Vasco, San Sebastian, Spain	June 1996
29 Organosilanes in an Inorganic World and Inorganic Silicon in an Organ	ic World
28 What Happens When Silicon Meets Biology	
27 Stabilized Group 14 Cations	
26 Landbouw Universiteit Wageningen, Wageningen, Netherlands	May 1996
Silicones at the Interface: Starch/Protein/Silicone Microparticles as Oral Vac	ccines
25 Université de Namur, Belgium	May 1996
Stabilizing eta -Cations and Protecting Transition Metals with Silicon	
24 Rijks Universiteit Utrecht	June 1995
Controlled Modification of Silica Surfaces: Polyolefin and Silicone Stericall	y Stabilized Silica
Colloids	
23 Queen's University	Sept. 1994
Silicone at the Interface: What happens when it's found in unusual places	

Silicon Mediated Cope-type Cyclizations OR After one year in the Netherlands, what does Fokkje (fok-ya) really mean? 21 University of Western Ontario 21 University of Western Ontario 20 University of Montpellier May 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences May 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences May 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences May 1993 Silicon as Mediator: Making the Drugs and Delivering Them to the Patient 17 17 Free University of Amsterdam March 1993 Silicon Transplant: From the β-effect to Polymers (focus on silicon extracoordination) 15 University of Sussex 15 Open University of Utrecht: Feb. 1993 Silicon Transplant: From the β-effect to Polymers (focus on silicon hyperconjugation) 14 14 University of Groningen Feb. 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences 13 13 University of Amsterdam Jan. 1993 A Silicon Transplant: From the β-effect to Polymers (focus on synthesis) 11 14 University of Amsterdam Jan. 1993 Silic	22	McMaster University	Oct. 1993	
21 University of Western Ontario Sept. 1993 Silicon Mediated Cope-type Cyclizations May 1993 20 University of Montpellier May 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences May 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences May 1993 Silicon as Mediator: Making the Drugs and Delivering Them to the Patient March 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences March 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences March 1993 Silicon Transplant: From the β-effect to Polymers (focus on silicon extracoordination) 15 15 University of Utrecht: Feb. 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences 13 31 University of Utrecht: Feb. 1993 Silicon Transplant: From the β-effect to Polymers (focus on silicon hyperconjugation) 14 14 University of Amsterdam Jan. 1993 Silicon Transplant: From the β-effect to Polymers (focus on synthesis) 11 11 Technische Hochschule Darmstadt Jan. 1993 A Silicon Transplant: From the β-effect to Polymers (focus on silicon hyperconjugation) 9 <	S	ilicon Mediated Cope-type Cyclizations OR After one year in the Netherlands,		
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20 University of Montpellier May 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences 19 University of Toulouse May 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences 18 University of Bordeaux May 1993 Silicon as Mediator: Making the Drugs and Delivering Them to the Patient 17 Free University of Amsterdam March 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences 16 Open University, Milton Keynes, England March 1993 A Silicon Transplant: From the β-effect to Polymers (focus on silicon extracoordination) 15 University of Sussex March 1993 A Silicon Transplant: From the β-effect to Polymers (focus on silicon hyperconjugation) 14 University of Groningen Feb. 1993 Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences 13 University of Amsterdam Jan. 1993 A Silicon Transplant: From the β-effect to Polymers (focus on synthesis) 11 Technische Hochschule Darmstadt Jan. 1993 A Silicon Transplant: From the β-effect to Polymers (focus on silicon hyperconjugation) 9 EHT-Zürich (Seebach Group Meeting) Feb. 1993 A Silicon Transplant: From the β-effect to Polymers (focus on silicon hyperconjugation) 9 EHT-Zürich (Se	21	University of Western Ontario	Sept. 1993	
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Silicon as Mediator: Making the Drugs and Delivering Them to the PatientMarch 199317Free University of AmsterdamMarch 1993Silicon Bearing Electron Withdrawing Groups: Exploiting the DifferencesMarch 199316Open University, Milton Keynes, EnglandMarch 1993A Silicon Transplant: From the β -effect to Polymers (focus on silicon extracoordination)1515University of SussexMarch 1993A Silicon Transplant: From the β -effect to Polymers (focus on silicon hyperconjugation)1414University of Utrecht:Feb. 1993Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences1313University of GroningenFeb. 1993Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences1212University of AmsterdamJan. 1993A Silicon Transplant: From the β -effect to Polymers (focus on synthesis)1111Technische Hochschule DarmstadtJan. 1993A Silicon Transplant: From the β -effect to Polymers (focus on silicon hyperconjugation)99ETH-Zürich (Seebach Group Meeting)Feb. 1993A Silicon Transplant: From the β -effect to Polymers (focus on silicon hyperconjugation)99ETH-Zürich (Seebach Group Meeting)Feb. 1993A Silicon Transplant: From the β -effect to PolymersMarch 19928 Polymeric Materials Derived from the β -EffectNexico City, (2 lectures)March 19928 Silicon Transplant: From the β -effect to PolymersSilicon Transplant: From the β -effect to Polymers9ETH-Züric	S	ilicon Bearing Electron Withdrawing Groups: Exploiting the Differences		
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