John C. Warner

President & Chief Technology Officer
The Warner Babcock Institute for Green Chemistry
100 Research Drive, Wilmington, MA 01887
978-225-5420 john.warner@warnerbabcock.com
www.johnwarner.org

John received his BS in Chemistry from UMASS Boston, and his PhD in Chemistry from Princeton University. After working at the Polaroid Corporation for nearly a decade, he then served as tenured full professor at UMASS Boston and Lowell (Chemistry and Plastics Engineering). In 2007 he founded the Warner Babcock Institute for Green Chemistry, with Jim Babcock (a research organization developing green chemistry technologies), and Beyond Benign with Amy Cannon (a non-profit dedicated to sustainability and green chemistry education).

While a senior research group leader at the Polaroid Corporation (1988-1997) Warner coauthored the defining text for the field of Green Chemistry with Paul Anastas and codified the 12 Principles of Green Chemistry. He is the editor of the journal "Green Chemistry Letters and Reviews". Warner is on the advisory panel for the Ellen MacArthur Foundation's New Plastics Economy has been elected a full member of the Club of Rome and is an advisor for Parley for the Oceans where in 2016 he helped create the technology for the Adidas Parley Recycled Ocean Plastics Shoe. He has served as sustainability advisor for several multinational companies. His research and publications in synthetic organic chemistry, noncovalent derivatization, polymer photochemistry and low temperature metal oxide semiconductors has provided the foundation for his theories of what he calls "entropic control in materials design".

The Warner Babcock Institute for Green Chemistry (WBI) is an independent 42,000 sq ft (4000 sq m) research laboratory in Wilmington, Massachusetts fully equipped with state-of-the-art chemistry and engineering equipment. With over 270 patents across 80 patent families, he has worked with over 100 fortune 500 companies helping to invent commercially relevant (high performance and appropriate cost) green chemistry technologies across all sectors of the chemical industry. His chemistry inventions have served as the foundation for several new companies, examples include: Collaborative Medicinal Development (ALS Therapy, Phase II Clinical Trials), Hairprint (hair color restoration), Collaborative Aggregates (Delta-S and Delta-Mist, asphalt warm mix, rejuvenator, & spray coat), Ambient Photonics (Lowlight Indoor Photovoltaic Energy devices for IoT and BIPV) Formaldehyde and Isocyanate Free wood composite adhesive, and Lithium Cobalt Battery recycling technology.

In 2007 Warner cofounded the nonprofit organization Beyond Benign with Amy Cannon. Collocated at the WBI labs in Wilmington, MA, Beyond Benign creates curricula and training for K-12 and university educators to incorporate concepts of green chemistry an sustainability to improve STEM education. Beyond Benign administers the Green Chemistry Commitment, asking University Chemistry departments to incorporate the principles of green chemistry into their mainstream curricula.

John has received awards as an academic (PAESMEM – President G. W. Bush & NSF, 2004), industrial chemist (Perkin Medal – Society of Chemical Industry, 2014), inventor (Lemelson Ambassadorship – Lemelson Foundation & AAAS) and for governmental chemicals policy (Reinventing Government National Performance Review – Vice President A. Gore & EPA, 1997). He received the American Institute of Chemistry's Northeast Division's Distinguished Chemist of the Year for 2002 and the Council of Science Society President's 2008 Leadership award. Warner was named by ICIS as one of the most influential people impacting the global chemical industries. In 2011 he was elected a Fellow of the American Chemical Society and named one of "25 Visionaries Changing the World" by Utne Reader. He serves as Distinguished Professor of Green Chemistry at Monash University in Australia and in 2017 the German Ministry of Economic Affairs and The Technical University of Berlin announced the naming of "The John Warner Center for Green Chemistry Star-Ups" in his honor.

August 2007 - Present		**Warner Babcock Institute for Green Chemistry, LLC** President and Chief Technology Officer
		**Beyond Benign** Co-Founder
February 2019 – Present		**Monash University** Distinguished Professor of Green Chemistry
November 2019 - Present		**AgroPAris Tech** Invited Professor
December 2015 – Present		**Harvard University** Adjunct, Extension School, Green Chemistry

January 1996 – August 2007

University of Massachusetts
Director, Center for Green Chemistry, Lowell [2004-2007]
Professor (Tenured), Plastics Engineering, Lowell [2004-2007]
Professor (Tenured), Community Health and Sustainability [2004-2006]
Director, Green Chemistry PhD Program, Boston [2001-2004]
Chair, Department of Chemistry, Boston [2001-2003]
Director, Center for Green Chemistry, Boston [2000-2004]
Director, Biochemistry Major, Boston [1999-2001]
Professor (Tenured), Department of Chemistry, Boston [2000-2004]
Associate Professor, Department of Chemistry, Boston [1996-2000]

June 1988 - January 1996

Polaroid Corporation, Cambridge, MA
Sr. Research Scientist/Research Group Leader

September 1984 – May 1988

Princeton University, Princeton, NJ
Ph.D. (Organic Chemistry) June 1988
MA (Organic Chemistry) January 1986
Research Advisor: Edward C. Taylor

September 1980 – May 1984

University of Massachusetts, Boston, MA
B. Sc. (Chemistry) May 1984
Research Advisor: Jean-Pierre Anselme

Selected Honors and Awards:

"Jean Dreyfus Lectureship" Southern California Conference on Undergraduate Research. **2019**
"Doris and Kenneth Kolb Chemistry Lecture" Bradley University **2019**
"The John Warner Center for Green Chemistry Startups" German Ministry of Economic Affairs and the Technical University of Berlin **2017**
"Harry & Carol Mosher Award" – ACS Silicon Valley **2016**
"AAAS-Lemelson Invention Ambasador" AAAS and Lemelson Foundation **2016**
"Eminent Scientist Lecture" American Chemical Society **2015**
"Massachusetts State Senate Recognition" Senator Bruce Tarr **2014**
"Special Congressional Recognition" Congressman John Tierney **2014**
"The Perkin Medal" Chemistry Industry Society **2014**
"Fellow of the Royal Society of Chemistry" Elected **2014**
"Grace Van DerVoort Lecturship" Sage Colleges, **2013.**
"The Marple-Schweitzer Lectureship" Northwestern University, **2013**
"Jean Dreyfus Boissevain Lectureship" Eastern Michigan University, **2013**
"Henry A. Lardy Distinguished Lectureship", South Dakota State University, **2013**
"Henry Maso Award" Society of Cosmetic Chemistry, **2012**
"Dow Sustainable Chemistry Lectureship", Colorado State University, **2012**
"One of 25 Visionaries Changing the World", Utne Reader, **2012**
"Fellow of the American Chemical Society" Elected **2011**.
"Environmental Merit Award" United States Environmental Protection Agency, **2011**
"GSA Chemistry Lectureship", University of Cinncinnatti, **2010**
"One of the Most Influential People in the Chemical Industries" ICIS **2008**
"Award for Outstanding Leadership" Council of Science Society Presidents, **2008**
"Honorary Member" Alpha Lambda Delta Freshman's National Honor Society, **2006**
"Presidential Award for Excellence in Science Mentoring" NSF and President George W. Bush, **2004**
"Outstanding Environmental Innovation" Environmental Business Council of New England, **2004**.
"Distinguished Mentoring Service Award" Ronald E. McNair Baccalaureate Achievement Program, **2004**.
"Outstanding Service to Nursing Award", Sigma Theta Tao, **2004**
"College and University Health and Safety Award" ACS Division of Chemical Health and Safety, **2004**
"Distinguished Chemist of the Year", American Institute of Chemists, New England Chapter, **2002**
"UMASS President's Public Service Award", Univesrsity of Massachusetts, **2002**
"Reinventing Government", National Performance Review, from Vice President Al Gore, **1997**
"Metropolitan Boston's Best and Brightest College Seniors", Celebrity Magazine, **1984**
"John Philip Sousa Award" and "Class Musician", Quincy High School, **1980**

Professional Responsibilities and Memberships:

Green Chemistry Letters and Reviews, Editor
Crystal Growth and Design, Editorial Board

Technical University of Berlin Chemical Invention Factory, Advisory Board
Industrial Agro-Biotechnologies Center, AgroTechParis, CoChair Review Committee.
The Swedish Foundation for Strategic Environmental Research, Panel for Reduced Chemical Hazards.
PhD Programme on Sustainable Chemistry Portuguese University of Aveiro, Advisory Committee.
Princeton Graduate School Leadership Council
Pearsons Organic Chemistry Advisory Board

American Chemical Society, Fellow
Royal Society of Chemistry, Fellow
Royal Australian Chemistry Institute
Club of Rome, Full Member
American Institute of Chemical Engineers
American Association for the Advancement of Science
American Association of Pharmaceutical Scientists
Society of Environmental Toxicology and Chemistry
Society of Cosmetic Chemists
Sustainable Nanotechnology Organization
Sigma Xi

United Nations Industrial Development Organization – Global Green Chemistry Initiative Advisory Board
Victorian, Australia EPA Strategic Advisor
Founding Stakeholder, Presidential Green Chemistry Challenge
Ellen MacArthur Foundation – The New Plastics Economy, Advisory Panel.
Parley for the Oceans, Advisor
Oceanic Global, Science Advisor.
MadeSafe, Science Advisor.
World Economic Forum Circulars, Advisor
PAESMEM, Advisor

The Dow Chemical Company, Sustainability External Advisory Council
Apple Computers, Chair, Green Chemistry and Sustainability Advisory Board
Nike, Sustainability Advisory Board
Levis, Sustainability Advisor
Biogen, Sustainability Advisory Panel
DexLeChe, Advisor

University Classes Taught:

Intro Chemistry I & II
Organic Chemistry I & II
Biochemistry I & II
Physiological Chemistry I & II
Nutrition
Medicinal Chemistry
Polymer Chemistry
Biophysical Chemistry
Chemistry and the Environment
Chemical Dynamics
Chemical Structure
Chemical Synthesis
Experimental Conceptualization
Introduction to Green Chemistry
Principles of Green Chemistry
Mechanistic Toxicology
Toxicology and Env. Health Sciences for Chemists
Sustainable Materials Design

Personal:

Wife:	Dr. Amy Cannon Warner
Children:	Joanna, Tom, John-John (Deceased), Libby, Amy and Natalie
Activities:	Occasional Runner (Marathon, Half Marathon, 10K)
	Occasional Musician (Keyboards, Guitar, Woodwinds, Percussion)
	Occasional Gamer (World of Warcraft)
	Occasional Author (Green Chemistry: Theory and Practice 1998, The Missing Elements 2019)

Recent US Federal Grants:

"Wearable Personal Hydrazine Monitoring System" NASA Shared Services Center SBIR NNX17CJ36P $125,000 June 2017-December 2017.

"Low-cost, light-switched, forward-osmosis desalination system." Department of Energy, Office of Sciences SBIR DE-SC00017075. $150,000 February 2017 - August 2017.

"Multiplexed Biofiltration of Volatile Organic Compounds" DARPA SBIR/STTR D17PC00142 $150,000. February 2017 - January 2018.

"Multiplexed Biofiltration of Volatile Organic Compounds. Phase II" DARPA SBIR/STTR 140D6318C0037 $1,300,000. June 2018 - June 2020.

Patents: (275 Patent Applications in 79 Patent Families)

79. "Solar cell dyes for copper redox based dye sensitized solar cells and combinations thereof"
Chittibabu, Kethinni; Warner, John C.; Martino, Debora; Allen, Richard
Priority Date: 2018-07-10
(275) 2020-01-16 WO 2020/014195 Filed July 09 2019.
(274) Unpublished US 62/696,010 File July 10, 2018.

78: "Methods of rare earth metal recovery from electronic waste"
Warner, John C.; Chittibabu, Kethini; Martino, Debora
Priority Date: 2018-04-19
(273) 2019-10-24 WO 2019/204554 Filed April 18, 2019.
(272) Unpublished US 62/659,845 Filed April 19, 2018.

77: "Heterobicyclic aromatic derivatives for the treatment of ferroptosis related disorders"
Warner, John C.; Baldino, Carmen; Muollo, Laura; Rosenfeld, Craig
Collaborative Medicinal Development
Priority Date: 2017-12-01
(271) 2019-06-06 WO 2019/106434 Filed November 30, 2018.
(270) Unpublished US 62/593,607 Filed January 12, 2017.

76. "Products comprising plant-based micro fibers"
Warner, John C.; Whitfiled, Justin; Allen, Richard M.; Tschudy, Dwight
Warner Babcock Institute for Green Chemistry
Priority Date: 2017-11-30
(269) 2019-06-06 WO 2019/108887 Filed November 30, 2018.
(268) Unpublished US 62/592,735 Filed November 30, 2017.

75. "Synthetic Blend Fluorinated Polyhedral Oligomeric Silsesquioxane (F-POSS) compositions formed from multiple feedstock materials. Continuation 2."
Warner, John Charles,
NBD Nanotechnologies, Inc.
Priority Date: 2017-10-07
(267) 2019-06-13 US 2019/0177344 Filed February 18, 2019.

74. "Functionalized F-poss monomer compositions and uses thereof."
Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow; Catchings, Perry L., NBD Nanotechnologies, Inc.
Priority Date: 2017-09-14
(266) 2019-04-04 JP 2019/052148 Filed September 14, 2018.
(265) 2019-03-22 CN 109503652 Filed September 14, 2018.
(264) 2019-03-20 EP 3456723 Filed September 14, 2018.
(263) 2018-04-05 US 2018/0094006 Filed Septamber 14, 2017.

73. "Methods of producing metal oxide films, patterned metal oxide surfaces, and filtration of volatile organic compounds"
Warner, John C.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2017-06-02
(262) 2018-12-06 WO 2018/222976 Filed June 1, 2018.
(261) Unpublished US 65/514,094 Filed June 2, 2017.

72. "Non-covalent derivatives of histone deacetylase inhibitors and methods of treatment"
Baldino, Carmen M., Muollo, Laura, Warner, John C.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2017-06-01
(260) 2018-12-06 WO 2018/222572 Filed May 29, 2018.
(259) Unpublished US 62/516,585 Filed June 1, 2017.

71. "Stilbene and fused stilbene derivatives as solar cell dyes"
Warner, John C.
Warner Babcock Institute for Green Chemistry
Priority Date: 2017-05-09
(258) 2018-11-15 WO 2018/208712 Filed May 8, 2018.
(257) Unpublished US 62/503,645 Filed May 9, 2017.

70. "Stilbene derivatives for the treatment of CNS and other disorders"
Warner, John C.
Warner Babcock Institute for Green Chemistry
Priority Date: 2017-05-09
(256) 2018-11-15 WO 2018/208709 Filed May 8, 2018.
(255) Unpublished US 62/503,654 Filed May 8, 2018.

69. "Biodegradable alternative to polyurethane-based foam cushioning"
Warner, John C.; Whitefield, Justin R.; Polley, Jennifer Dawn; Stoler, Emily Jennifer,
Warner Babcock Institute for Green Chemistry
Priority Date: 2017-05-03
(254) 2018-11-08 WO 2018/204565 Filed May 3, 2018.
(253) Unpublished US 62/500,826 Filed May 3, 2017.

68. "Debondable Adhesives and Uses Therof."
Gonzalez De Los Santo, Eduardo Alberto; Chittibabu, Kethinni; Martino, Debora Marcela; Trakhtenberg, Sofia; Warner, John C.,
Nike, Inc.
Priority Date: 2017-02-23
(252) 2019-10-15 CN 110337478 Filed February 23, 2018.
(251) 2019-11-28 EP 3568447 Filed February 22, 2018.
(250) 2018-08-30 WO 2018/156689 Filed February 22, 2018.
(249) 2018-08-23 US 2018/0235316 Filed February 17, 2017.

67. "Tunable adhesive compositions and methods."
Long, Elisha; Warner, John C.; Whitfield, Justin; Dorogy, Bill; Kearney, Frederick Richard,
Caddis Adhesive Company, Inc.
Priority Date: 2016-11-18
(248) 2019-09-25 EP 3541886 Filed November 20, 2017.
(247) 2018-05-24 CA 3044253 Filed November 20, 2017.
(246) 2018-05-24 WO 2018/094357 Filed November 20, 2017.
(245) 2018-12-06 US 2018/0346778 Filed May 31, 2018.

66. "High density clear brine fluids."

Ray, Thomas G.; Keene, Colin H.; Sikora, David J.; Bartley, David W.; Warner, John; Whitfield, Justin; Tshudy, Dwight; Williams, Joni P.
Lanxess Solutions US, Inc.
Priority Date: 2016-07-14
(244) 2019-08-22 US 2019/0256758 Filed May 02, 2019

65. "Crystalization suppressant combinations for high density clear brine fluids"
Ray, Thomas G.; Keene, Colin H.; Sikora, David J.; Bartley, David W.; Warner, John; Whitfield, Justin; Tshudy, Dwight; Williams, Joni P.,
Lanxess Solutions US, Inc.
Priority Date: 2016-07-14
(243) 2019-10-10 WO 2019/195259. Filed April 02, 2019
(242) 2018-08-09 US 2018/0223172 Filed April 3, 2018.

64. "High density clear brine fluids."
Ray, Thomas G.; Keene, Colin H.; Sikora, David J.; Bartley, David W.; Warner, John; Whitfield, Justin; Tshudy, Dwight; Williams, Joni P.
Lanxess Solutions US, Inc.
Priority Date: 2016-07-14
(241) 2019-04-24 BR 112019000580 Filed July 14, 2017.
(240) 2019-03-15 CN 109476982 Filed July 14, 2017.
(239) 2019-05-22 EP 3484978 Filed July 14, 2017.
(238) 2019-02-28 IL 264231 Filed January, 13 2019.
(237) 2019-03-01 IN 2019/17,000,141 Filed January 2, 2019.
(236) 2018-01-18 AU 2017/296043 Filed July 14, 2017.
(235) 2018-01-18 WO 2018/013949 Filed July 14, 2017.
(234) 2018-01-18 US 2018/0016484 July 14, 2017.

63. "Bisphenol-A free crosslinked polymer compositions."
Warner, John C.; Whitfield, Justin; Kearney, Frederick R.; Gladding, Jeffrey; Hari, Anitha,
Warner Babcock Institute for Green Chemistry
Priority Date: 2016-06-27
(233) 2019-05-01 EP 3475324 Filed June 27, 2017.
(232) 2019-05-21 CN 109790248 Filed June 27, 2017
(231) 2019-03-06 KR 2019/0022788 Filed June 27, 2017.
(230) 2018-01-04 AU 2017/289153 Filed June 27, 2017.
(229) 2017-06-27 WO 2018/005430 Filed June 27, 2017.
(228) Unpublished US 62/355,074 Filed June 27, 2016.

62. "Photochromic water harvesting platform."
Warner, John C.; Cheruku, Srinivasa R.; Trakhtenberg, Sofia
Warner Babcock Institute for Green Chemistry
Priority Date: 2016-06-23
(227) 2019-09-26 JP 2019/527250 Filed June 23, 2017.
(226) 2019-05-01 EP 3475387 Filed June 23, 2017.
(225) 2019-05-21 CN 109790451 Filed June 23, 2017.
(224) 2017-12-28 AU 2017/281784 Filed June 23, 2017.
(223) 2017-06-23 WO 2017/223397 Filed June 23, 2017.
(222) 2019-05-23 US 2019/0153306. Filed June 23, 2017.

61. "Reversibly switchable surfactants and methods of extracting natural products, coating surfaces, cleaning laundry, and osmotic extraction using same."
Warner, John C.; Cheruku, Srinivasa,
Warner Babcock Institute for Green Chemistry
Priority Date: 2016-06-23
(221) 2019-11-07 JP 2019/531869 Filed June 23, 2017.
(220) 2019-07-09 CN 109996599 Filed June 23, 2017.
(219) 2019-05-01 EP 3474975 Filed June 23, 2017

(218) 2017-12-28 AU 2017/281523 Filed June 23, 2017.
(217) 2017-12-28 WO 2017/223413 Filed June 23, 2017.
(216) 2019-05-23 US 2019/0152993. Filed June 23, 2017.

60. "Aqueous hair dyeing compositions comprising poly(lactic acid)."
Lago, Juliana Carvalhaes; Fregonesi, Adriana; Scanavez de Paula, Carla Maria Sanches; Pedroso de Oliveira, Ana Paula; Warner, John C.; Muollo, Laura; Cookson, Jennifer.
Natura Cosmetics and Warner Babcock Institute for Green Chemistry
Priority Date: 2015-12-30
(215) 2019-03-28 JP 2019/508483 Filed December 29, 2016.
(214) 2018-06-29 CL 2018/001800 Filed June 29, 2018.
(213) 2018-11-09 MX 2018/008138 Filed December 29, 2016.
(212) 2018-11-14 KR 2018/0123010 Filed December 29, 2016.
(211) 2018-04-12 BR 112018013359 Filed December 29, 2016.
(210) 2017-07-06 AU 2016/379964 Filed December 29, 2016.
(209) 2018-11-07 EP 3397237 Filed December 29, 2016.
(208) 2018-04-11 AR 107239 Filed December 28, 2016.
(207) 2017-07-06 WO 2017/112999 Filed December 29, 2016.
(206) 2017-07-06 US 2017/0189310 Filed December 30, 2015.

59. "Preparation of 2-phenylbenzofuran derivatives for the treatment of central nervous system disorders and other disorders."
Warner, John C.; Cheruku, Srinivasa R.; Gladding, Jeffery A.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2015-11-11
(205) 2018-07-31 IL 259674 Filed May 29, 2018.
(204) 2018-06-14 AU 2016/353004 Filed November 10, 2016.
(203) 2018-10-23 CN 108699019 Filed November 10, 2016.
(202) 2018-09-19 EP 3374354 Filed November 10, 2016.
(201) 2019-01-24 JP 2019/501875 Filed November 10, 2016.
(200) 2017-05-18 CA 3005212 Filed November 10, 2016.
(199) 2017-05-18 WO 2017/083488 Filed November 10, 2016.
(198) 2018-12-06 US 2018/0346433 Filed November 10, 2016.

58. "Preparation of dipyridyl thiosemicarbazones as anticancer agents."
Warner, John C.; Gladding, Jeffery A.; Cheruku, Srinivasa R.,
Oncochel Therapeutics, LLC
Priority Date: 2015-09-29
(197) 2017-04-06 WO 2017/058748 Filed September 27,2016.
(196) Unpublished US 62/234,198 Filed September 29, 2015.

57. "Lignocellulosic composites and methods of making same."
Warner, John C.; Whitfield, Justin R.; Gladding, Jeffery A.; Allen, Richard M.,
Collaborative Aggregates, LLC
Priority Date: 2015-05-26
(195) 2019-09-09 MX 2017/015081 Filed May 26, 2016.
(194) 2018-02-09 IN 2017/370046114 Filed December 21, 2017.
(193) 2018-04-11 EP 3302969 Filed May 26, 2016.
(192) 2016-12-01 CA 2986427 Filed May 26, 2016.
(191) 2018-06-28 JP 2018/516784 Filed May 26, 2016.
(190) 2016-12-01 AU 2016/267104 Filed May 26, 2016.
(189) 2016-12-01 WO 2016/191521 Filed May 26, 2016.
(188) 2018-05-31 US 2018/0147824 Filed May 26, 2016.

56. "Functionalized fluorinated polyhedral oligomeric silsesquioxane (F-POSS) monomer compositions and uses thereof."
Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow,
NBD Nanotechnologies, Inc.

Priority Date: 2015-03-09
(187) 2018-04-19 JP 2018/510862 Filed March 9, 2016.
(186) 2018-01-17 EP 3268412 Filed March 9, 2016.
(185) 2016-09-15 WO 2016/145060 Filed March 9, 2016.
(184) 2016-09-15 **US 10,174,059** Filed March 9, 2016. Granted January 1, 2019.

55. "Processes for preparing functionalized f-poss monomers."
Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow,
NBD Nanotechnologies, Inc.
Priority Date: 2015-02-09
(183) 2017-12-27 EP 3259278 Filed February 19, 2016
(182) 2018-05-17 JP 2018/512382 Filed February 19, 2016.
(181) 2016-08-25 WO 2016/134207 Filed February 19, 2016.
(180) 2016-11-10 **US 9,630,981** Filed February 19, 2016. Granted April 25, 2017.

54. "Compositions and methods for compatibilizing fluorinated materials in nonfluorinated solvent systems." Warner, John Charles; Loebelenz, Jean R.; Kariuki, Peter N.; Bwambok, David K.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2014-11-14
(179) 2016-10-20 **US 9,932,424** Filed November 16, 2015. Granted April 3, 2018.

53. "Synthetic Blend Fluorinated Polyhedral Oligomeric Silsesquioxane (F-POSS) compositions formed from multiple feedstock materials. Continuation."
Warner, John Charles,
NBD Nanotechnologies, Inc.
Priority Date: 2014-10-07
(178) 2017-06-29 **US 10,208,070** Filed August 8, 2016. Granted February 18, 2019.

52. "Synthetic blend Fluorinated Polyhedral Oligomeric Silsesquioxane (F-POSS) compositions formed from multiple feedstock materials."
Warner, John Charles,
NBD Nanotechnologies, Inc.
Priority Date: 2014-10-07
(177) 2017-08-16 EP 3204450 Filed October 7, 2015.
(176) 2017-12-28 JP 2017/538791 Filed October 7, 2015.
(175) 2016-04-14 WO 2016/057599 Filed October 7, 2015.
(174) 2016-04-07 **US 9,409,933** Filed October 7, 2015. Granted August 9, 2016.

51. "Wood composites containing oleaginous microbial biomass."
Braksmayer, Diza; McKee, Adrienne; Janssen, Giselle; Krevor, David H.; Warner, John C.; Whitfield, Justin R.; Dorogy, William E., Jr.; Kearney, Frederick Richard; Stoler, Emily J.,
Solazyme, Inc.
Priority Date: 2014-06-20
(173) 2015-12-23 WO 2015/196134 Filed June 19, 2015.
(172) Unpublished US 62/015,154 Filed June 20, 2014.

50. "Method for preparation of N-acetyl-L-cysteinamide from N-acetyl-L-cysteine. Continuation."
Warner, John C.; Cheruku, Srinavasa; Thota, Sambaiah; Lee, John W.,
Naucity Pharmaceuticals Inc
Priority Date: 2014-03-28
(171) 2017-12-28 **US 9,889,103** Filed September 6, 2017. Granted February 13, 2018.

49. "Method for the preparation of N-acetyl-L-cysteinamide from N-acetyl-L-cysteine."
Warner, John C.; Cheruku, Srinavasa; Thota, Sambaiah; Lee, John W.,
Naucity Pharmaceuticals Inc
Priority Date: 2014-03-28
(170) 2017-02-01 EP 3122342 Filed March 27, 2015.
(169) 2015-10-01 WO 2015/148880 Filed March 27, 2015.

(168) 2017-06-29 **US 9,763,902** Filed March 27, 2015. Granted September 19, 2017.

48. "Thermal recording materials containing phosphate modifier."
Chaker, Fadi; Warner, John Charles; Whitfield, Justin Robert; Li Lugus, Michelle Wanchi; Banerjee, Deboshri,
Appvion, Inc.
Priority Date: 2013-12-18
(167) 2015-06-25 CA 2915013 Filed December 2, 2014.
(166) 2016-10-26 **EP 3083262** Filed December 2, 2014. Granted June 26, 2019.
(165) 2016-02-24 **CN 105358328** Filed December 2, 2014. Granted September 7, 2018.
(164) 2015-06-25 WO 2015/094630 Filed December 2, 2014.
(163) 2015-09-08 **US 9,126,451** Filed December 18, 2013. Granted September 8. 2015.

47. "Metal complexes and methods of treatment."
Warner, John C.; Cheruku, Srinivasa R.; Hari, Anitha; Norman, James J.,
Collaborative Medicinal Development
Priority Date: 2013-11-11
(162) 2016-06-30 IL 245593 Filed May 10, 2016.
(161) 2016-08-26 IN 2016/37019993 Filed 2016-06-10
(160) 2016-06-23 **AU 2014/346476** Filed November 10, 2014. Granted January 24, 2019.
(159) 2016-09-21 EP 3068762 Filed November 10, 2014.
(158) 2016-12-28 JP 2016/540828 Filed November 10, 2014.
(157) 2016-08-24 CN 105899519 Filed November 10, 2014.
(156) 2015-05-14 CA 2930290 Filed November 10, 2014.
(155) 2015-05-14 WO 2015/070177 Filed November 10, 2014.
(154) 2016-09-22 US 2016/0271175 Filed November 10, 2014.

46. "Novel asphalt binder additive compositions and methods of use."
Warner, John C.; Muollo, Laura Rose, Walker, Rowan Lewis, Bianchini, Jason R.,
Collaborative Aggregates LLC
Priority Date: 2013-11-11
(153) 2019-05-23 US 2019/0152850 Filed January 1, 2019.

45. "Novel asphalt binder additive compositions and methods of use"
Warner, John C.; Muollo, Laura Rose; Walker, Rowan Lewis; Bianchini, Jason R.,
Collaborative Aggregates LLC
Priority Date: 2013-11-11
(152) 2018-11-22 AU 2018/256540 Filed October 31, 2018.
(151) 2018-09-13 US 2018/0257985 Filed May 14, 2018.

44. "Asphalt binder additive compositions and related methods."
Warner, John C.; Muollo, Laura Rose; Walker, Rowan Lewis; Bianchini, Jason R.,
Collaborative Aggregates LLC
Priority Date: 2013-11-11
(150) 2016-12-01 **JP 6,474,085** Filed November 10, 2014. Granted February 27, 2019..
(149) 2016-12-08 **AU 2014346479** Filed November 10, 2014. Granted August 2, 2018.
(148) 2016-12-28 EP 3107958 Filed November 10, 2014.
(147) 2015-05-14 WO 2015/070180 Filed November 10, 2014.
(146) 2016-09-15 **US 9,994,485** Filed November 10, 2014. Granted June 12, 2018

43. "Formulation and processes for hair coloring, Continuation."
Warner, John C.; Muollo, Laura; Stewart, Amie,
Warner Babcock Institute for Green Chemistry -> Hairprint
Priority Date: 2013-10-14
(145) 2016-06-30 **US 9,522,102** Filed September 9, 2014. Granted December 20, 2016.

42. "Formulation and processes for hair coloring."
Warner, John C.; Muollo, Laura; Stewart, Amie,

Warner Babcock Institute for Green Chemistry -> Hairprint
Priority Date: 2013-10-14
(144) 2017-08-30 ZA 2016/03186 Filed May 11, 2016.
(143) 2016-06-30 IL 245082 Filed April 13, 2016.
(142) 2016-08-26 IN 2016/37015550 Filed 2016-04-05
(141) 2015-10-27 BR 102014025546 Filed October 14, 2014.
(140) 2016-10-27 **JP 6449269** Filed January 25, 2014. Granted January 9, 2019.
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(136) 2016-05-26 AU 2014/337395 Filed January 25, 2014.
(135) 2015-04-23 WO 2015/057254 Filed January 25, 20134
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Warner, John; Tang, Pui-In; Stewart, Amie; Kelly, Colleen,
Empire Technology Development
Priority Date: 2013-10-02
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(132) 2015-04-09 WO 2015/050542 Filed October 2, 2013.
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40. "Preparation of Rilyazine derivatives useful in treatment of cancer."
Warner, John C.; Gladding, Jeffery A.; Gero, Thomas W.; Cheruku, Srinivasa R.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2013-09-05
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Empire Technology Development
Priority Date: 2013-08-22
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Warner, John C.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2013-06-18
(125) 2014-12-18 US 2014/0369901 Filed June 18, 2013. Abandoned

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Warner, John C.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2013-06-18
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Collaborative Medicinal Development
Priority Date: 2012-09-28
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(121) J2015-11-02 **JP 6345674** Filed September 27, 2013. Granted June 20, 2018.

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Plavisch, Lauren; Ricci, Melissa; Warner, John C.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2012-04-10
(112) 2013-10-10 US 2013/0263921 April 10, 2012.

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Warner, John C.; Viola, Michael S.; Barykina, Olga; Dua, Vineet,
Warner Babcock Institute for Green Chemistry
Priority Date: 2012-01-17
(111) 2013-07-18 US 2013/0180587 Filed January 17, 2012.

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Warner, John C.; Viola, Michael S.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2011-09-23
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Warner, John C.; Viola, Michael S.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2011-09-02
(109) 2013-03-07 **US 8,581,246** Filed September 2, 2011. Granted November 12, 2013.

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Warner, John C.; Viola, Michael S.,
Warner Babcock Institute for Green Chemistry
Priority Date: 2011-09-02
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Poe, Sarah L.; Paradise, Christopher L.; Muollo, Laura R.; Pal, Reshma; Warner, John C.; Korzenski, Michael B., Warner Babcock Institute for Green Chemistry
Priority Date: 2011-06-21
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Advance Technology Materials Inc, and Entegris, Inc.
Priority Date: 2010-08-20
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Advance Technology Materials Inc, and Entegris, Inc.
Priority Date: 2010-08-20
(090) 2013-09-23 CL 2013/000500 Filed February 20, 2013.
(089) 2013-07-05 IN 623/KOLNP/2013 Filed 2013-03-06
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Warner, John C.; Van Benschoten, Helen; Cannon, Amy,
Onesun, Inc. -> Warner Babcock Institute for Green Chemistry
Priority Date: 2010-02-18
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Warner, John C.; Van Benschoten, Helen; Cannon, Amy,
Onesun, Inc. -> Warner Babcock Institute for Green Chemistry
Priority Date: 2010-02-18
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Warner, John C.,
Onesun, Inc. -> Warner Babcock Institute for Green Chemistry
Priority Date: 2010-02-18
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Warner, John C.; Stoler, Emily J.,
John Masters Organic Hair Care Inc.
Priority Date: 2009-11-13

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Warner, John C.; Stoler, Emily J.,
John Masters Organic Hair Care Inc.
Priority Date: 2009-11-13
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Warner, John C.; Stoler, Emily J.,
John Masters Organic Hair Care Inc.
Priority Date: 2009-11-13
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Advanced Technology Materials Inc and Warner Babcock Institute for Green Chemistry
Priority Date: 2009-02-05
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Warner, John C.; Cannon, Amy; Dye, Kevin,
University of Massachusetts
Priority Date: 2006-05-23
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Warner, John C.; Cannon, Amy S.; Raudys, Jennifer; Undurti, Arundhati
University of Massachusetts
Priority Date: 2002-12-20
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Warner, John C.; Morelli, Alessandra; Ku, Man Ching
University of Massachusetts
Priority Date: 2001-11-16
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Warner, John C.; Morelli, Alessandra; Ku, Man Ching,
University of Massachusetts
Priority Date: 2001-11-16
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Warner, John C.; Morelli, Alessandra,
University of Massachusetts
Priority Date: 2001-07-18
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Dombrowski, Edward J.; Guarrera, Donna J.; Jones, Robert L.; Mischke, Mark R.; Warner, John C.; Yang, Jiyue, Polaroid Corporation
Priority Date: 1997-04-22
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Dombrowski, Edward J.; Jones, Robert L.; Warner, John C.; Yang, Jiyue,
Polaroid Corporation
Priority Date: 1997-04-22
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Guarrera, Donna J.; Mattucci, Neil C.; Mehta, Avinash C.; Taylor, Lloyd D.; Warner, John C.,
Polaroid Corporation
Priority Date: 1996-02-09
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Fitzgerald, Maurice J.; Kearney, Frederick R.; Liang, Rong Chang; Schwarzel, William C.; Guarrera, Donna J.; Hardin, John M.; Warner, John C.,
PGI Graphics Imaging Waltham LLC
Priority Date: 1995-04-28
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Ford, Maureen F.; Guarrera, Donna J.; Mischke, Mark R.; Pai, Ramdas P.; Warner, John C.,
Polaroid Corporation
Priority Date: 1994-06-30
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Fehervari, A. F.; Gaudiana, R. A.; Kolb, Eric S.; Mehta, Parag G.; Taylor, Lloyd D.; Warner, John C.,
Polaroid Corporation
Priority Date: 1994-05-13
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Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C.,
Polaroid Corporation
Priority Date: 1994-05-13
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Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C.,
Polaroid Corporation
Priority Date: 1994-05-13
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Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C.,
Polaroid Corporation
Priority Date: 1994-05-13
(029) 1999-02-11 **DE 69,504,652 T2** Filed May 10, 1995. Granted February 11, 1999.
(028) 1997-04-01 **US 5,616,451** Filed May 24, 1995. Granted April 1, 1997.

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Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C.,
Polaroid Corporation
Priority Date: 1994-05-13
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Marshall, John L.; Shon Baker, Rita S.; Takiff, Larry C.; Telfer, Stephen J.; Warner, John C.,
Polaroid Corporation
Priority Date: 1994-04-25
(021) 1999-05-20 **DE 69,506,396 T2** Filed April 25, 1995. Granted May 20, 1999.
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Ehret, Anne; Marshall, John L.; Baker, Rita S.; Takiff, Larry C.; Telfer, Stephen J.; Warner, John C.,
Polaroid Corporation
Priority Date: 1994-04-25
(019) 1997-02-01 SG 34781 Filed April 25, 1995. Granted April 17, 1997.
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(015) 1997-06-10 KR 977002792 Filed April 25, 1995.
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(008) 1996-12-10 **US 5,582,956** Filed April 28, 1995. Granted December 12, 1996

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Taylor, Lloyd D.; Warner, John C.,
Polaroid Corporation

Priority Date: 1991-07-19
(007) 1997-07-10 **DE 69,218,312 T2**, Filed July 3, 1992. Granted July 10, 1997.
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Taylor, Lloyd D.; Warner, John C.,
Polaroid Corporation
Priority Date: 1991-07-19
(005) 1994-08-19 **JP 2,881,072** Filed July 16, 1992. Granted April 4, 1999.
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Recent Examples (5-years) Presentations:

- Jean Dreyfus Keynote Speaker, "Green Chemistry: The Missing Elements" Southern California Conference in Undergraduate Research, San Marcos, CA November 21, 2019.
- Keynote Lecture, "Plastics: Looking for Solutions" Ecofuel Conference, Montreal, Canada. November 19, 2019.
- Keynote Lecture, "Green Chemistry" 5th Asia Pacific Rim Universities Vice Presidents for Research Meeting, Bangkok, Thailand, October 29, 2019.
- Opening Keynote Lecture, "Nature's Mechanisms and the Circular Economy" International Green Chemistry Workshop, Mumbai, India, October 16, 2019.
- Opening Keynote, "Green Chemistry: The Molecular Mechanisms of Sustainability and Innovation" Swiss Green & Sustainable Chemistry Days, ILMAC 2019, Basel, Switzerland, September 25, 2019.
- 2 Day Workshop Professor CEFIC Green Chemistry Bootcamp, Ghent, Brussels, September 23, 2019.
- Opening Keynote, "Green Chemistry: The Missing Elements" Taiwan Chemical Industry Forum, Taipei, Taiwan, August 22, 2019.
- Congressional Testimony, "Green Chemistry" House Science, Space and Technology Committee, Washington, DC July 25, 2019.
- Panelist, Moving the EU Chemicals Policy to 2030: Promoting Sustainable Innovation, Knowledge Building and Mart Communication, The Square, Brussels Belgium, June 28, 2019.
- Opemning Plenary Lecture, "Green Chemistry: The Missing Elements" The Danish Chemical Society Annual Meeting, University of Copenhagen. Copenhagen Denmark, June 27, 2019.
- Keynote Speaker, "The Mechanisms to Achieve a Circular Economy" Science to Enable the circular economy, The Royal Society, Carlton House Terrace, London UK, June 24, 2019.
- Keynote Speaker, "Green Chemistry: The Missing Elements", Universidad EAN, Bogota, Colombia, June 19, 2019.
- Four Day Workshop Professor, :Green Chemistry" Universidad EAN, Bogota, Colombia June 17-20, 2019.
- Invited Speaker, "Green Chemistry Mechanisms to invent Regenerative Products" . 23rd Annual Green Chemistry & Engineering Conference, Reston, VA, United States, June 13 2019.
- Session Organizer, "Chemical Technologies for Implementing the Circular Economy" . 23rd Annual Green Chemistry & Engineering Conference, Reston, VA, United States, June 11 2019.
- Speaker, "Toxicology and Green Chemistry" Grfeen Chemistry Committmnet Summit, Reston VA, June 10, 2019.
- Guest Speaker, Curious Minds, Steelcase, Grand Rapids, MI, June 5, 2019.
- Invited Speaker, "Technology greenhouse and the elements of innovation" 50th Central Regional Meeting of the American Chemical Society, Midland, MI, United States, June 4 2019.
- Invited Speaker, "Natures Molecular Mechanisms" Dow Chemical Internal Seminar, Midland MI June 3, 2019.
- 2 Day Workshop Professor CEFIC Green Chemistry Bootcamp, Brussels, Belgium, June 28-29, 2019.
- Speaker and Participant, The Ocean Plastics Leadership Summit, Bernuda, May 17-21, 2019.
- Dow SEAC Member, Dow Aisia Pacific, Shanghai, China May 13-16, 2019.
- Invited Speaker, Dow Asia Pacific Internal Seminar, Shanghai, China, May 13, 2019.
- Keynote Speaker, Merck Internal Sustainability Symposium, Rahway, NJ, May 10, 2019.
- Invited Speaker, Ted Taylor Memorial Symposium, Princeton, University, Princeton, NJ May 6, 2019.
- Visiting Professor Lectures, Chulalongkorn University, Bangkok, Thailand, April 28-May2, 2019.
- Invited Speaker, Dow Thailand, Rayong, Thailand, April 29, 2019.
- Keynote Speaker, Yale Forrestry Leadership Council, New Haven, CT, April 25, 2019.
- Invited Speaker, Environmnetal Forum at the Harvard Institute for Learning in Retirement, April 18, 2019.
- Guest Lecturer, Yale University, New Haven CT, April 15, 2019.
- Award Speaker, Green Chemistry: The Miossing Elements, The Kold Lectureshio, Bradley University, Peoria, IL April 9, 2019.
- Keynote Speaker, Harvard University Engineers without Borders Meeting, Cambridge, MA April 6, 2019
- Keynote Speaker, Green Chemistry and the Circular Economy, Ellen Macarthur Foundation CE100, Portland, OR, April 2, 2019.
- Invited Participant, Lemmelson Green Chemistry and Engineering in the Engineering Curriculum", Renaissance Hotel, Washington, DC March 27-28, 2019.
- Keynote Speaker, Northeastern University, Student ACS Chapter Meeting, Boston, MA March 14, 2019.
- Strategic Advisor, Victoria EPA, Board Meeting, Victori, Australia (Joined by conference call) March 12.
- Invited Speaker, Zymergen Internal Seminar, Emeryville, CA March 8, 2019.
- Award Address, *Green Chemistry: The Missing Elements*, The Senai Innovation Institute for Green Chemistry of the Firjan SENAI, Rio de Janeiro, February 21, 2019.
- 5-Day Workshop Convenor, *Introduction to Green Chemistry*, United Nations Industrial Development Organization (UNIDO), Rio de Janeiro, Brazil, February 18-22, 2019.
- Keynote Address, *The Mechanism to Achieve a Circular Bioeconomy*, Michigan Forest Bioeconomy Conference, Midland, MI, February 12, 2019.
- Futures Discussion, DARPA Planning, Arlington, VA January 16, 2019.
- Invited Speaker, Corteva Internal Seminar, Indinapolis, IN, December 15, 2018.

- Dow SEAC Member, Dow Plastics, Houston, TX, December 11-14, 2018
- Keynote Presentation: *Green Chemistry*, Greenbuild 2018, Chicago, IL November 14, 2018.
- Keynote Speaker, Eastern Analytical Synmpoium, Princeton, NJ, November 12, 2018.
- Keynote Speaker, *Introductions and Examples of Green Chemistry*, UNIDO Green Chemistry Conference, Vienna, Australia, November 5, 2018.
- 2 Day Workshop Professor, P&G G-Force Green Chemistry Workshop, October 29-30, 2018.
- Guest Lecturer, Harvard Innovation and Entrepreneurship in Science and Engineering, Cambridge, MA October, 25, 2018.
- Keynote Speaker, *Catalyzing Innovation While Addressing Global Challenges*, 50th Anniversary Conference of the Club of Rome, Rome, Italy, October 18, 2018.
- Keynote Speaker, *Green Chemistry: The Fabric of Sustainability*, Interact: The definitive converence on contract textiles, New You, NY October 10, 2018.
- Keynote Speaker, *50 Years of the Club of Rome and 20 Years of Green Chemistry*, The John Warner Center for Green Chemistry Startups, Berlin, Germany, October 2, 2018.
- Keynote Speaker, *The Crystalization of Green Chemistry*, Association for Crystallization Technology 22nd Larson Workshop, Boston, MA October 1, 2018.
- Invited Speaker, *Entropic Concepts in Materials Design*, Science History Institute's Innovation Day, Philadelphia, PA September 25.
- Invited Speaker, *20 Years of Green Chemistry*, Gordon College Annual Green Chemistry Symposium, Wenham, MA, September 24, 2018.
- Guest Lecture, Green Chemistry: The Missing Elements, Universidad EAN, Green Chemistry Conference, Bogota, Colombia. September 19, 2018.
- Keynote Speaker, *Principles of Circularity and Implications for the Chemicals and Waste Industry*, International Council of Chemical Associations (ICCA) and The Uited Nations Environmnet Programme, Chengdu, China, September 12, 2018.
- Dow SEAC Member, Meeting with Jim Fitterling, new CEO, Midland, MI, September 5-6, 2018.
- Invited Speaker, "Towards meeting the UN sustainability goals through green chemistry" 256th ACS National Meeting & Exposition, Boston, MA, United States, August 22.
- Invited Speaker, "Twenty years of theory and practice" 256th ACS National Meeting & Exposition, Boston, MA, United States, August 21, 2018.
- Plenary Lecture, *An International Perspective on Green Chemistry in the Food Insdustry*, Monash University Food Waste Symposium, Melbourne, Australia July 19, 2018.
- Invited Lecture, "Making the Chemical Industry more Profitable" Monash University, Melbiurne, Australia July 17, 2018.
- Invited Speaker, "Green Chemistry: The Missing ELelments" Dow/DuPont Internal Seminar, Marlborough, MA July 10, 2018.
- Guest Lecturere, Amherst Town Library, Amherst, NH June 27, 2018.
- Invited Speaker, "20 Years of the 12 Principles" 22nd Annual Green Chemistry and Engineering Conference, Portland, OR, June 18, 2018.
- Coordinator, Lemelson's Reviving Edison's Dream in the 21st Century, West Orange, NJ, June 11, 2018.
- Keynote Speaker, Chemcon 2018, Saint Mary's University, Halifax, Nova Scotia, US June 7, 2018.
- Plenary Lecture, *Green Chemistry: Addressing Climate Change at the Molecular Level*, Climate KIC Strategy Workshop 2018, Amsterdam, Netherlands, May 29, 2018.
- Guest Lecture, *20 Years of the Green Chemistry Invention Factory*, Industrial Agro-Biotechnologies Chair, AgroParis Tech Lecture, Reims, France, May 24, 2018.
- Guest Lecture, *20 Years of the Green Chemistry Invention Factory*, The Technical University of Berlin, Berlin, Germany, May 16, 2018
- Keynote Speaker, *Green Chemistry Innovation and Entrepreneurship*, 3rd Green and Sustainable Chemistry Conference, Berlin, Germany, May 15, 2018.
- Dow SEAC Member, Midland MI, May 1-3, 2018.
- Panelist, Mistra Chemicals Policy Meeting, Stockholm, Seden, April 25-26, 2018.
- Invited Lecture, *Inventing for the Circular Economy*, The Swedish Foundation for Strategic Environmental Research, Stockholm, Sweden, April 26, 2018.
- Guest Lecturer, 8th Annual Climate Week, Brookline Public Library, Brookline, MA April 10, 2018.
- Advisory Board Member, Nike Sustainability Meeting, Converse, Boston, MA April 3-4, 2018.
- Invited Guest, Harvard School of Public Health Toxics Meeting, Boston, MA April 2, 2018.
- Invited Panelist, Oceanic Global Standard Announcement, Brooklyn, NY March 27, 2018.
- Invited Lecture, "Molecular mechanisms of ethical design" 255th ACS National Meeting & Exposition, New Orleans, LA, United States, March 20, 2018.
- Invited Lecture, "Principle 10. Learning from nature how to make materials compatible with nature" 255th ACS National Meeting & Exposition, New Orleans, LA, United States, March 19, 2018,

- Invited Lecture, "Green chemistry theory & practice: Principle 1. From improving what is to inventing what could be" 255th ACS National Meeting & Exposition, New Orleans, LA, United States, March 19, 2018.
- Keynote Speaker, Arizona State University Biodesign Institute, March 6, 2018.
- Special Lecture, *Green Chemistry: The Missing Elements*, Victoria Australia Environmental Protection Agency Melbourne, Victoria, Australia, February 22, 2018
- Keynite Speaker, Michigan State University, February 13, 2108.
- Keynote Speaker, *Green Chemistry: The Missing lements,* Elevating Impact Summit, Portland, OR February 9, 2018.
- Keynote Speaker, Impact Investment Forum, Boston, MA December 6, 2017.
- Keynote Speaker, University of Kansas, CEBC Program, Lawrence, KS, December 5, 2017.
- Awrd Speaker, McMAster University, Hamilton, Ontario, Canada, December 1, 2017.
- Keynote Speaker, Agylix Sustainabilityy Symposium, Andover, MA November 16, 2017.
- Plenary Speaker, *Invention at the intersection of STEM and Sustainability* Massachusetts STEM Summit, Fitchburgh, MA November 14, 2017.
- Master Speaker, *Green Chemistry: Inventing Biomimicry Technologies in a Circular Economy*, Greenbuild International Conference and Expo, Boston, MA, November 09, 2017.
- Award Speaker, *Green Chemistry: The Missing Elements*, Gand Seminar, Loyola University Maryland, Baltimore, MD. November 07, 2017.
- Keynote Address, *Inventing for the Circular Economy with Green Chemistry*, CE100 Reykjavik, Ellen MacArthur Foundation, Reykjavik, Iceland, October 12, 2017.
- Keynote Address, *Catalyzing Innovation While Addressing Global Challenges,* Chemical Innovation Exchange Conference, Frankfurt, Germany, September 19, 2017
- Keynote Presentation, *Entropy Considerations in the Sustainable Design of Cosmetics,* The Future of Sustainability, NY Society of Cosmetic Chemists, Paramus, NJ, February 15, 2017
- Henry and Carol Mosher Award Lecture, *Green Chemistry: The Missing Elements*, Silicon Valley American Chemical Society, Santa Clara, CA, January 26, 2017
- Keynote Lecture, Green Chemistry: *Driving Innovation to Commercialization,* World Conference on Fabric and Home Care, Singapore, October 7, 2016
- Award Address, *Inventing Green Chemistry*, AAAS / Lemelson Foundation Invention Ambassadors, Washington, DC, July 14, 2016
- Earth Day Keynote, *Green Chemistry: The Missing Elements*, Stony Brook University, Earthstock: A Celebration of Earth Day, Stony Brook, NY, April 22, 2016
- Keynote Lecture, *Entropic Considerations in Molecular Design and Elements of Innovation,* 5th Design Science Symposium, Rhode Island School of Design, Providence, RI, April 17, 2016
- Keynote Lecture, *Entropic Considerations in Materials Design,* Buildwell 2016, San Francisco, CA, February 11, 2016
- Closing Keynote, *Innovation with Green Chemistry: A Faster Path to Commercialization*, InformEx 2016, New Orleans, LA, February 4, 2016.
- Keynote Speaker, *Green Chemistry and Innovation*, 4th Industrial Green Chemistry International Convention, Mumbai, India, December 04, 2015
- Centennial Speaker, *Green Chemistry: The Missing Elements,* University of Toledo Chemistry and Biochemistry Department, Toledo, OH, October 01, 2015
- Keynote Speaker, *Green Chemistry and Product Development*, Living Product Expo, Pittsburgh, PA, September 18, 2015
- Keynote Lecture, *The Technology Greenhouse – Idea to Commercialization,* The Guardian Sustainable Business Event, New York, NY, September 2, 2015
- Eminent Scientist Lecture, *What's in Your Chemical Toolbox?*, 250th American Chemical Society National Meeting, Boston, MA, August 17, 2015
- Keynote Lecture, *Ocean Plastics and Green Chemistry*, United Nations Parley – Oceans, Climate. Life, New York, NY, June 29, 2015
- Keynote Lecture, *Molecular Mechanisms and Entrepreneurship in Green Chemistry,* International Symposium on Green Chemistry, La Rochelle, France, May 4, 2015
- Plenary Speaker, *Entropic Control, Sustainable Nanotechnology at the Molecular Level*, 6th Sustainable Nanotechnology Conference, Venice, Italy, March 11, 2015
- Keynote Speaker, *Green Chemistry and Innovation*, AfterTaste 2015: Inside Imagination, New School of Design, New York, NY, February 28, 2015
- Keynote Speaker, Green Chemistry: *Helping Create a Safer, More Sustainable Future*, Iowa State University Symposium on Sustainability, Ames, IA, February 23, 2015
- Keynote Speaker, *Green Chemistry and Bio-Based Materials*, 6th Next Generation Bio-Based & Sustainable Chemicals Summit, New Orleans, LA, February 3, 2015
- Keynote Speaker, *Green Chemistry: Research through to Commercialization,* 5th Asia-Oceanic Conference on Green and Sustainable Chemistry, New Delhi, India, January 15, 2015
- Keynote Speaker, *Green Chemistry: Biomimicry and Molecular Psychology*, Bioneers 25th Anniversary Summit, San Rafael, CA, October 18, 2014

- Keynote Speaker, *Perspective on Sustainable Chemistries*, 33rd Dish Symposium, Hosted By BASF, Detroit, MI, September 23, 2014
- Expert Panelist Kickoff Event, *Green Chemistry and Building Materials*, Building Product Ecosystems, New York, NY, September 17, 2014
- Perkin Medal Award Address, *Green Chemistry a Perspective*, Society of the Chemical Industry, Philadelphia, PA, September 16, 2014
- Plenary Address, *Green Chemistry: New Eyes and new Ideas in Science,* Biennial Conference of Chemical Education, Allendale, MI
- Opening Keynote, *Introduction to Green Chemistry,* Chemicals, Health and Green Chemistry Workshop, Ramat Hanadiv, Israel, June 10, 2014
- Opening Keynote, *Green Chemistry Approaches to Endocrine Disruptor Free Products*, Environmental Endocrine Disruptors Gordon Research Conference, Lucca, Italy, May 11, 2014
- Keynote Address, *Green Chemistry and Competitive Advantage*, Pressure Sensitive Tape Council Annual Meeting, Nashville, TN, April 30, 2014
- Keynote Lecture, Green Chemistry: *An Opportunity for Growth and Competitive Advantage,* EcoChem: Global Sustainable Chemistry and Engineering, Basel, Switzerland, November 19, 2013
- Innovation Day Opening Plenary, *Entropy at the Intersection of Innovation and Sustainability*, The Chemical Heritage Foundation, Philadelphia, PA, September 17, 2013
- Marple Schweitzer Award Lecture, *Green Chemistry: The Missing Elements,* Northwestern University, Evanston, IL, May 31, 2013
- Jean Dreyfus Boissevain Award Lecture, *Green Chemistry: The Missing Elements,* Eastern Michigan University, Ypsilanti, MI, May 29, 2013
- Keynote Lecture, *Entropic Control in Materials Design as an Example of Green Chemistry,* Adhesive and Sealant Council Annual Meeting, Atlanta, GA, April 21, 2013
- Lardy Award Lecture, *Green Chemistry: Principles and Practice*, South Dakota State University, Brookings, SD, February 6, 2013
- Henry Maso Award Lecture, *Green Chemistry: The Missing Elements of Materials Design,* Society of Cosmetic Chemistry Annual Scientific Seminar, Charleston, SC, May 31, 2012
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- "20 Years of the 12 Principles" Warner, John C. 22nd Annual Green Chemistry and Engineering Conference, Portland, OR, June 18, 2018. GC&E 03.
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- "Principle 10. Learning from nature how to make materials compatible with nature" Warner, John 255th ACS National Meeting & Exposition, New Orleans, LA, United States, March 18-22, 2018, CHED-316.
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- "Green chemistry's role in recycling "Warner, John C., 21st Annual Green Chemistry & Engineering Conference, Reston, VA, United States, June 13-15, 2017, GC+E-62.
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- "Green chemistry: An opportunity for growth & competitive advantage" Warner, John, 252nd ACS National Meeting & Exposition, Philadelphia, PA, United States, August 21-25, 2016 MPPG-11.
- "Green chemistry education: Techniques and resources for adopting green chemistry theory and practice in K-12 through higher education programs" Cannon, Amy; Warner, John; Anderson, Kate; Enright, Mollie, 251st ACS National Meeting & Exposition, San Diego, CA, United States, March 13-17, 2016 (2016), CHED-1737.
- "Technology greenhouse: Ideas through commercialization" Warner, John, 251st ACS National Meeting & Exposition, San Diego, CA, United States, March 13-17, 2016 (2016), INOR-646.
- "Eminent Scientist Lecture: What's in your chemical toolbox?" Warner, John C., 250th ACS National Meeting & Exposition, Boston, MA, United States, August 16-20, 2015 SOCED - 1
- "Green chemistry and entrepreneurship" Warner, John C.; Pont, Joseph, 250th ACS National Meeting & Exposition, Boston, MA, United States, August 16-20, 2015 CHED-129.
- "Teaching toxicology and environmental impact: A toxicology course for chemistry majors at Simmons College" Cannon, Amy S.; Warner, John C., 250th ACS National Meeting & Exposition, Boston, MA, United States, August 16-20, 2015 CHED-121.
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- "Decision making and innovation in commercial chemical research and development", Warner, John C., 247th ACS National Meeting & Exposition, Dallas, TX, United States, March 16-20, 2014, SCHB-17.
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- "Green Chemistry: New Eyes and New Ideas in Science" Warner, John C. 242nd ACS National Meeting & Exposition, Denver, CO, August 28-September 1, 2011, CHED-5.
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- "Food and medicines of the future: The role of green chemistry" Warner, John C. 240th ACS
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- "Green Chemistry: A Call to Arms" Warner, John C. 239th ACS National Meeting, San Francisco, CA March 21-25, 2010. CHED-1.
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- "There has Never Been a Better Time to Be a Chemist" Warner, John C. 37th Northeast Regional Meeting of the American Chemistry Society, Burlington, VT June 29- July 2, 2008. NERM-025
- "Science and Policy Perspectives on Sustainability" Warner, John C. 235th ACS National Meeting, New Orleans, LA April 6-10, 2008. IEC-126
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