



## John C. Warner

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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).

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”. His inventions and patents in molecular design, pharmaceuticals, cosmetics, adhesives, metals recycling, asphalt pavement and solar energy are the basis for several startup companies and provide the backdrop to his theories on creativity and innovation.

John is one of the founders of the field of Green Chemistry, co-authoring the defining text “Green Chemistry: Theory and Practice” with Paul Anastas. He has published extensively on the application of the 12 principles of green chemistry and the need to incorporate them into product design and the chemistry curriculum. Because of his unique view of the chemical enterprises, formed from over 30 years of experience in industry, academia and entrepreneurship he has been asked to serve on several regional, national and international government initiatives in chemicals policy.

John has received awards as an academic, an industrial chemist, an inventor and a sustainability thought leader. He received the 2004 Presidential Award for Excellence in Science Mentoring (one of the highest awards for US science education), the 2014 Perkin Medal (one of the highest honors in American Industrial Chemistry) and was named a 2016 AAAS-Lemelson Invention Ambassador. 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. 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**  
President

*August 2017 – Present*



**Monash University**  
Adjunct Professor of Chemistry

*December 2015 – Present*



**Harvard University**  
Adjunct, Extension School, Green Chemistry

*August 2011 – Present*



**Simmons College**  
Adjunct Professor of Chemistry

January 1996 – August 2007



**University of Massachusetts**

Director, Center for Green Chemistry, Lowell [2004-2007]  
 Professor, Plastics Engineering, Lowell [2004-2007]  
 Professor, Community Health and Sustainability, Lowell [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:**

“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 Ambassador” 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 Lectureship” 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 Cincinnati, **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 Tau, **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”, University 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**

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**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

American Chemical Society, Fellow  
 Royal Society of Chemistry, Fellow  
 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  
 Founding Stakeholder, Presidential Green Chemistry Challenge  
 Ellen MacArthur Foundation – The New Plastics Economy, Advisory Panel.  
 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  
 Biogen, Sustainability Advisory Panel  
 DexLeChe, Advisor

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**University Classes Taught:**

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

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**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)

**Patents:**

"Tunable adhesive compositions and methods." Long, Elisha; Warner, John C.; Whitfield, Justin; Dorogy, Bill; Kearney, Frederick Richard, WO 2018094357. Priority Date: November 8, 2016.

"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., US 20180016484, WO 2018013949. Priority Date: July 14, 2016.

"Bisphenol A-free crosslinked polymer compositions." Warner, John C.; Whitfield, Justin; Kearney, Frederick R.; Gladding, Jeffrey; Hari, Anitha, WO 2018005430. Priority Date: June 27, 2016.

"Photochromic water harvesting platform." Warner, John C.; Cheruku, Srinivasa R.; Trakhtenberg, Sofia WO 2017223397. Priority Date: June 23, 2016.

"Reversibly switchable surfactants and methods of extracting natural products, coating surfaces, cleaning laundry, and osmotic extraction using same." Warner, John C.; Cheruku, Srinivasa, WO 2017223413. Priority Date: June 23, 2016

"Lignocellulosic composites and methods of making same." Warner, John C.; Whitfield, Justin R.; Gladding, Jeffery A.; Allen, Richard M., WO 2016191521. Priority Date: May 26, 2016.

"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, US 20170189310, WO 2017112999. Priority Date: December 30, 2015.

"Thermal recording materials containing phosphate modifier." Chaker, Fadi; Warner, John Charles; Whitfield, Justin Robert; Li Lugus, Michelle Wanchi; Banerjee, Deboshri, US 9,126,451, WO 2015094630, CA 2915013, CN 105358328, EP 3083262. Priority Date: December 18, 2015.

"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., WO 2017083488. Priority Date: November 11, 2015.

"Preparation of dipyrindyl thiosemicarbazones as anticancer agents." Warner, John C.; Gladding, Jeffery A.; Cheruku, Srinivasa R., WO 2017058748. Priority Date: September 29, 2015.

"Functionalized fluorinated polyhedral oligomeric silsesquioxane (F-POSS) monomer compositions and uses thereof." Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow, US 20160294899, WO 2016145060, EP 3268412, JP 201810862. Priority Date: March 9, 2015.

"Processes for preparing functionalized f-poss monomers." Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow, US 9,630,981, WO 2016134207, EP 3259278, JP 2018512382. Priority Date: February 19, 2015.

"Compositions and methods for compatibilizing fluorinated materials in nonfluorinated solvent systems." Warner, John Charles; Loebelenz, Jean R.; Kariuki, Peter N.; Bwambok, David K., US 9,932,424. Priority Date: November 14, 2014.

"Functionalized F-poss monomer compositions and uses thereof." Warner, John C.; Loebelenz, Jean R.; Cheruku, Srinivasa Rao; Gero, Thomas Woodrow; Catchings, Perry L., US 20180094006. Priority Date: October 7, 2014.

"Synthetic blend Fluorinated Polyhedral Oligomeric Silsesquioxane (F-POSS) compositions formed from multiple feedstock materials." Warner, John Charles, US 9,404,933, WO 2016057599, EP 3204450, JP 2017538791. Priority Date: October 7, 2014.

"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., WO 2015196134. Priority Date: June 20, 2014.

"Method for the preparation of N-acetyl-L-cysteinamide from N-acetyl-L-cysteine." Warner, John C.; Cheruku, Srinivasa; Thota, Sambaiah; Lee, John W., US 9889103, WO 2015148880, EP 3122342. Priority Date: March 28, 2014.

"Metal complexes and methods of treatment." Warner, John C.; Cheruku, Srinivasa R.; Hari, Anitha; Norman, James J., US 20160271175, WO 2015070177, CA 2930290, CN 105899519, EP 3068762. Priority Date: November 11, 2013.

"Asphalt binder additive compositions and related methods." Warner, John C.; Muollo, Laura Rose; Walker, Rowan Lewis; Bianchini, Jason R., US 9,994,485, WO 2015070180, EP 3107958, JP 2016537497. Priority Date: November 11, 2013.

"Formulation and processes for hair dyeing." Warner, John C.; Muollo, Laura; Stewart, Amie, US 9,522,102. Priority Date: October 14, 2013.

"Formulation and processes for hair coloring." Warner, John C.; Muollo, Laura; Stewart, Amie, US 8,828,100, WO 2015057254, CN 105792797, EP 3057561, JP 2016533376, KR 20160068958. Priority Date: October 14, 2013.

"Bromine-free fire retardant (FR) agents capable of using a cyclization mechanism." Warner, John; Tang, Pui-In; Stewart, Amie; Kelly, Colleen, US 20160312121, WO 2015050542, CN 105592893. Priority Date: October 2, 2013.

"Preparation of Rilyazine derivatives useful in treatment of cancer." Warner, John C.; Gladding, Jeffery A.; Gero, Thomas W.; Cheruku, Srinivasa R., US 9,394,299, WO 2015034785, EP 304184. Priority Date: September 5, 2013.

"Structured endothermic fire-retardant agents encapsulated in thermally-sensitive material and fire-retardant composition comprising polymer matrix and microcapsules incorporating fire-retardant agents." Warner, John; Tang, Pui-In; Stewart, Amie; Kelly, Colleen, US 9856381, WO 2015026353. Priority Date: August 22, 2013.

"Flexible microreactors." Warner, John C., US 20140369901. Priority Date: June 18, 2013.

"Thermal imaging." Warner, John C., US 20140371064. Priority Date: June 18, 2013

"Dihydro-6-azaphenylene derivatives for the treatment of CNS, oncological diseases and related disorders." Warner, John C.; Nguyen, Dieu; Gladding, Jeffery A.; Cheruku, Srinivasa R.; Loebelenz, Jean R.; Norman, James J.; Thota, Sambaiah; Lee, John W.; Rosenfeld, Craig, US 20140094487, WO 2014052906, CA 2886749, CN 104994853, EP 2900239, KR 20150060775. Priority Date: September 28, 2012

"Dye-sensitized solar cell and corrosion resistant electrode stack therein." Plavisch, Lauren; Ricci, Melissa; Warner, John C., US 20130263921. Priority Date: April 10, 2012.

"Solar cells with a colorant sensitized semiconductor layer prepared from a presensitized semiconductor Composition." Warner, John C.; Viola, Michael S.; Barykina, Olga; Dua, Vineet, US 20130180587. Priority Date: January 17, 2012.

"Dye formulation for fabricating dye sensitized electronic devices." Warner, John C.; Viola, Michael S., US 20130074935. Priority Date: September 23, 2011

"Formulation and method for hair dyeing." Warner, John C.; Viola, Michael S., US 8,366,791. Priority Date: September 2, 2011.

- "Protective barriers for electronic devices." Warner, John C.; Viola, Michael S., US 8581246. Priority Date: September 2, 2011.
- "Method for the recovery of lithium cobalt oxide from lithium ion batteries." Poe, Sarah L.; Paradise, Christopher L.; Muollo, Laura R.; Pal, Reshma; Warner, John C.; Korzenski, Michael B., US 9,972,830, WO 201277620, CN 103620861, EP 2724413, JP 2014526953, KR 20140039302. Priority Date: June 21, 2011.
- "Coloring composition containing L-dopa and L-arginine and forming a non-covalent derivatization complex." Warner, John C.; Stoler, Emily J., US 8,118,880, WO 2012067868. Priority Date: November 15, 2010.
- "Sustainable process for reclaiming precious metals and base metals from electronic waste." Korzenski, Michael B.; Jiang, Ping; Norman, James; Warner, John; Ingalls, Laura; Gnanamgari, Dinakar; Strickler, Fred; Mendum, Ted, US 9,238,850, WO 2012024603, CN 103249849, EP 2606158, JP 6068341, KR 20130099948. Priority Date: August 20, 2010.
- "Additives for solar cell semiconductors." Warner, John C., US 20110226306, WO 2011103506. Priority Date: February 18, 2010.
- "Semiconductors compositions for dye-sensitized solar cells." Warner, John C.; Van Benschoten, Helen; Cannon, Amy, US 20110232717, WO 2011103503. Priority Date: February 18, 2010.
- "Systems and methods for preparing a metal oxide based anode for dye-sensitized solar cells." Warner, John C.; Van Benschoten, Helen; Cannon, Amy, US 20110232742, WO 2011103494. Priority Date: February 18, 2010.
- "Coloring composition containing an aromatic compound and tyrosinase." Warner, John C.; Stoler, Emily J., US 20110113571, WO 2011060351, CN 10265495, EP 2501374, JP 2012539054. Priority Date: November 13, 2009.
- "Hair coloring composition containing an aromatic compound and an initiator." Warner, John C.; Stoler, Emily J., US 8,231,689, WO2011060354. Priority Date: November 3, 2009.
- "Non-fluoride containing composition for removal of polymers and other organic material from surface." Korzenski, Michael B.; Jiang, Ping; Warner, John; Mendum, Ted; Lugus, Michelle; Whitfield, Justin; Vanbenschoten, Helen; Payne, Makonnen, WO 2010091045. Priority Date: February 5, 2009.
- "Photo-induced copolymer functionalized substrates." Warner, John C.; Cannon, Amy; Dye, Kevin, WO 2007139810. Priority Date: May 23, 2006.
- "Photoreactive polymers and devices for use in hair treatments." Warner, John C.; Cannon, Amy S.; Raudys, Jennifer; Undurti, Arundhati, US 7,550,136, WO 2004058187, CA 2510162, EP 1575537, JP 2004562578. Priority Date: December 20, 2002.
- "Methods of solubilizing and recycling biodegradable polymers containing photoreactive moieties using Irradiation." Warner, John C.; Morelli, Alessandra; Ku, Man Ching, US 6,946,284. Priority Date: November 16, 2001.
- "Metal oxide films." Warner, John C.; Morelli, Alessandra, US 20030054207, WO 2003008079. Priority Date: July 15, 2001.
- "Thermographic recording film." Dombrowski, Edward J., Jr.; Guarrera, Donna J.; Jones, Robert L.; Mischke, Mark R.; Warner, John C.; Yang, Jiyue, US 5,750,464. Priority Date: April 22, 1997.
- "Thermographic recording film." Dombrowski, Edward J., Jr.; Jones, Robert L.; Warner, John C.; Yang, Jiyue, US 5,750,463. Priority Date: April 22, 1997.

"Photographic system." Guarrera, Donna J.; Mattucci, Neil C.; Mehta, Avinash C.; Taylor, Lloyd D.; Warner, John C., US 5,705,312, WO 1997029405, CA 2212884, DE 69701493, EP 0820607, JPH 11508381. Priority Date: February 9, 1996.

"Low-volatility, substituted 2-phenyl-4,6-bis(halomethyl)-1,3,5-triazine for lithographic printing plate Preparation." Fitzgerald, Maurice J.; Kearney, Frederick R.; Liang, Rong Chang; Schwarzel, William C.; Guarrera, Donna J.; Hardin, John M.; Warner, John C., US 5,561,029, WO 1996034315, CA 2189459, DE 69609136, EP 0767932, JP 2968342. Priority Date: April 28, 1995.

"Thermally-processable image recording materials including substituted purine compounds." Ford, Maureen F.; Guarrera, Donna J.; Mischke, Mark R.; Pai, Ramdas P.; Warner, John C., US 5,411,929. Priority Date: June 30, 1994.

"Copolymeric mordants and photographic products and processes containing them." Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C., US 5,395,731. Priority Date: May 13, 1994.

"Copolymers having pendant functional thymine groups." Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C., US 5708106. Priority Date: May 13, 1994.

"Imaging medium and process." Fehervari, Agota F.; Gaudiana, Russell A.; Kolb, Eric S.; Mehta, Parag G.; Taylor, Lloyd D.; Warner, John C., US 5,424,268. Priority Date: May 13, 1994.

"Method of imaging using a polymeric photoresist having pendant vinylbenzyl thymine groups" Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C., US 5,616,451. Priority Date: May 13, 1994.

"Vinylbenzyl thymine monomers and their use in photoresists." Grasshoff, J. Michael; Taylor, Lloyd D.; Warner, John C., US 5,455,349, CA 2185144, DE 1995604952, EP 0759193, JP 5296975. Priority Date: May 13, 1994.

"Process for fixing image and medium therefor." Ehret, Anne; Marshall, John L.; Baker, Rita S. S.; Takiff, Larry C.; Telfer, Stephen J.; Warner, John C., US 5,582,956, CA 2186514, DE 9506396, EP 0757628, JP 52783695. Priority Date: April 24, 1994.

"Process for fixing an image." Ehret, Anne; Marshall, John L.; Shon Baker, Rita S.; Takiff, Larry C.; Telfer, Stephen J.; Warner, John C., US 5,741,630, WO 1995029067, DE 69506396. Priority Date: April 24, 1994.

"Process and composition for use in photographic materials containing hydroquinones. Continuation in part." Taylor, Lloyd D.; Warner, John C., US 5338644. Priority Date: July 19, 1991

"Process and composition for use in photographic materials containing hydroquinones." Taylor, Lloyd D.; Warner, John C., US 5177262, EP 0523470, CA 2070450, DE 69218312, JP 2881072. Priority Date: July 19, 1991.

**Publications:**

- "Innovation with Non-Covalent Derivatization" Warner, John C.; Stoler, Emily, in "Green Techniques for Organic Synthesis and Medicinal Chemistry" 2<sup>nd</sup> Edition, Zjang, Wei and Cue, Berkeley W., Eds. Wiley 2018, Chapter 6, p 117-130.
- "Isolation and Characterization of 1,3-Bis(vinylbenzyl)thymine: Copolymerization with Vinylbenzyl Thymine Ammonium Chloride" Vy, Ngoc Chau H. Vy; Chen, Nina Bin; Martino, Debora M.; Warner, John C.; Lee, Nancy, Journal of Polymers 2017, Article ID 6938475, 10 pages.
- "Models for integrating toxicology concepts into chemistry courses and programs" Cannon, Amy S.; Finster, David; Raynie, Douglas; Warner, John C. Green Chemistry Letters and Reviews 2017, 10(4), 436-443.
- "Purpose and Intent at the Intersection of Nanotechnology and Green Chemistry" Warner, John C. Green Chemistry Letters and Reviews 2016, 9(4) 208.
- "Entropic Considerations in Molecular Design" Warner, John C.; Ludwig, Jennifer K., ACS Sustainable Chemistry & Engineering. 2016, 4(11), 5897-5899.
- "Foreword", Warner, John C. in Problem-Solving Exercises in Green and Sustainable Chemistry" by Matlack, Albert S.; Dicks, Andrew P. 2016 CRC Press, Boca Raton, FL.
- "Rethink how Chemical Hazards are Tested" Warner, John C.; Ludwig, Jennifer K. Nature 2016, 536 (7616) 269-270.
- "Data and Computational Sciences Role in Green Chemistry" Warner, John C. CIO Review 2016, February 08, 25-26.
- "Green Chemistry and Innovation" Warner, John C. in "Teaching and Learning about Sustainability" ACS Symposium Series 1205, 2015 79-85.
- "Where We Should Focus Green Chemistry Efforts", Warner, John C., Aldrichimica Acta 2015, 48(1) 29.
- "Non-Covalent Derivatives: Cocrystals and Eutectics ." Stoler, Emily; Warner, John C. Molecules 2015, 20, 14833-14848.
- "Noncovalent Derivatization: A Laboratory Experiment for Understanding the Principles of Molecular Recognition and Self-Assembly through Phase Behavior" Cannon, Amy S.; Warner, John C.; Koraym, Smaa A.; Marteel-Parrish, Anne E., J. Chem. Ed. 2014 91(9), 1486-1490.
- "Green Chemistry and Chemical Bonds" Cannon, Amy S. and Warner, John C., in Chemistry for Changing Times, 13th Edition, Hill, John W.; McCreary, Terry W., and Kolb, Doris K., Pearson Education, Inc., 2013, p. 118.
- "Safer Pesticides through Green Chemistry" Cannon, Amy S. and Warner, John C., in Chemistry for Changing Times, 13th Edition, Hill, John W.; McCreary, Terry W., and Kolb, Doris K., Pearson Education, Inc., 2013, p. 624.
- "Designing endocrine disruption out of the next generation of chemicals", Schug, T. T.; Abagyan, R.; Blumberg, B.; Collins, T. J.; Crews, D.; DeFur, P. L.; Dickerson, S. M.; Edwards, T. M.; Gore, A. C.; Guillette, L. J.; Warner, John C., Green Chemistry 2013, 15(1), 181-198.
- "Green Chemistry and The Pharmaceutical Industry: The Myths and Opportunities" Cannon, Amy S.; Pont, Joseph L.; Warner, John C. in "Green Techniques for Organic Synthesis and Medicinal Chemistry" Eds: Zhang, W. and Cue, B., John Wiley & Sons 2012.



- "Concentration of Bisphenol A in Thermal Paper" Mendum, Ted; Stoler, Emily; Van Benschoten, Helen; Warner, John C. *Green Chemistry Letters and Reviews* 2011, 4(1), 81-86.
- "The Science of Green Chemistry and its Role in Educational Reform" Cannon, Amy S.; Warner, John C., *New Solutions* 2011, 21(3), 499-517.
- "The Twelve Principles of Green Chemistry" Jessup, Phillip J.; Trakhtenberg, Sofia; Warner, John C., in "Innovations in Industrial and Engineering Chemistry: A Century of Achievements and Prospects for the New Millennium" Eds. Flank, William H.; Abraham, Martin A.; Matthews, Michael A, ACS Symposium Series # 1000, 2009, 12, 401-436.
- "K-12 Outreach and Science Literacy Through Green Chemistry" Cannon, Amy S.; Warner, John C. in "Green Chemistry Education: Changing the Course of Chemistry" Ed. Levy, Irv ACS Symposium Series, 2009, 167-185.
- "Core-shell Thymine Containing Polymeric Micelle System: Study of Controlled Release of Riboflavin", Saito, Kei; Warner, John, C., *Green Chemistry Letters and Reviews*, 2009, 2(1-2), 71-76.
- "Linking Hazard Reduction to Molecular Design: Teaching Green Chemical Design" Anastas, Nicholas; Warner, John C. in "Green Chemistry Education: Changing the Course of Chemistry" Ed. Levy, Irv ACS Symposium Series, 2009, 117-136.
- "Green Chemistry: Terminology and Principles" Peabody-O'Brien, Karen, Myers, John Peterson, Warner, John Env. Health Perspectives, 2009, 117(9) A385-A386.
- "Green Chemistry: Foundations in Cosmetic Sciences" Cannon, Amy S.; Warner, John C. in *Global Regulatory Issues for the Cosmetics Industry*, Vol. 2, Lintner, K., Ed., William Andrew, 2009, 1-16.
- "Green Chemistry Status and Future" Warner, John C. *Green Chemistry Letters and Reviews*, 2009, 2(1-2), 1.
- "Photosensitization of Bioinspired Thymine Containing Polymers" Martino, Debora M.; Reyna, Dalila; Estenoz, Diana A.; Trakhtenberg, Sofia; Warner ; John C. J. *Phys. Chem.* 2008, 112(21). 4786-4792.
- "Influence of pH and Salt on the Photocrosslinking in Polyelectrolyte Thymine-Containing Films" Trakhtenberg, Sofia; Kumar, Ramya; Bianchini, Jason; Thor, Savin; Martino, Deborah; Warner, John C. J. *Macr. Sci. Part A* 2007, 44(12) 1311-1315.
- "Entropic Control of Processes and Materials" Trakhtenberg, Sofia; Warner, John C. *Chem. Reviews* 2007, 107(6) 2174-2182.
- "Non-Catalytic Photoinduced Immobilization Processes in Polymer Films" Trakhtenberg, S.; Cannon, A. S.; Warner, J. C. in "Thin Films and Nanostructures: Physico-Chemical Phenomena in Thin Films and at Solid Surfaces" Ed. by L.I. Trakhtenberg, S.H. Lin and O.J. Ilegbusi, Elsevier 2007 34, 665-695.
- "Core-bound Polymeric Micellar System Based on Photocrosslinking of Thymine" Saito, Kei; Ingalls, Laura; Lee, Jun; Warner, John C. *Chem. Commun.* 2007 2503-2505.
- "The Effect of pH on the Viscosity of Titanium Dioxide Aqueous Dispersions with Dicarboxylic Acids", Johnson ; Abby M., Trakhtenberg , Sofia; Cannon, Amy S.; Warner, John C. J. *Phys. Chem.* 2007, 111 8139-8146.
- "Thymine Based Water Soluble Phototripolymers: Their Preparation and Synthesis" Bianchini, Jason R.; Saito, Kei; Balin, Taylor B.; Dua, Vineet; Warner, John C. J. *Polymer Sci., Part A: Polymer Chem.* 2007 45, 1296-1303.
- "The Natural Evolution of Green Chemistry" Warner, John C. *Green Chemistry Letters and Reviews*, 2007, 2(1), 1.

- "Green Chemistry and Sustainable Materials Design" Warner, John C. Society of Cosmetic Chemists Annual Scientific Seminar Proceedings, Boston, MA 2006, 44-4.
- "The Effects of Irradiation Dose and of Photopolymer Composition on the Dissolution of Entrapped Dyes" Kiarie, Cecilia; Jimenez-Ruiz, Johana; Pheng, Kanika; Trakhtenberg, Sofia; Warner, John C. J. Macromol. Sci. 2006 43(12), 1965-1974.
- "Entropic Control in Green Chemistry and Materials Design" Warner, John C. 2006 Pure and Appl. Chem. 2006 78(11), 2035-2041.
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### Recent Examples (5-years) Presentations:

- 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*, 3<sup>rd</sup> Green and Sustainable Chemistry Conference, Berlin, Germany, May 15, 2018.
- Invited Lecture, *Inventing for the Circular Economy*, The Swedish Foundation for Strategic Environmental Research, Stockholm, Sweden, April 26, 2018.
- Special Lecture, *Green Chemistry: The Missing Elements*, Victoria Australia Environmental Protection Agency Melbourne, Victoria, Australia, February 22, 2018
- Keynote Speaker, *Green Chemistry: The Missing Elements*, Elevating Impact Summit, Portland, OR February 9, 2018.
- 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
- Closing Keynote, *The Future in Green Chemistry*, Fortune Brainstorm Green, Laguna Niguel, CA, April 18, 2012

## Abstracts:

- “20 Years of the 12 Principles” Warner, John C. 22<sup>nd</sup> Annual Green Chemistry and Engineering Conference, Portland, OR, June 18, 2018. GC&E 03.
- “Molecular mechanisms of ethical design” Warner, John 255th ACS National Meeting & Exposition, New Orleans, LA, United States, March 18-22, 2018 (2018), PROF-39.
- “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 (2018), CHED-316.
- “Green chemistry theory & practice: Principle 1. From improving what is to inventing what could be” Warner, John; Anastas, Paul 255th ACS National Meeting & Exposition, New Orleans, LA, United States, March 18-22, 2018 (2018), CHED-245.
- “Green chemistry: Inventing for a circular economy” Warner, John C. 21st Annual Green Chemistry & Engineering Conference, Reston, VA, United States, June 13-15 (2017), GC+E-96.
- “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.
- “Green chemistry: Invention with intention to avoid harm” Warner, John C.; Anastas, Paul T., 21st Annual Green Chemistry & Engineering Conference, Reston, VA, United States, June 13-15 (2017), GC+E-41.
- “3D Printing Dye-Sensitized Solar Cells” Kurriss, Phoebe; Loebelenz, Jean; Warner, John C. 253rd ACS National Meeting & Exposition, San Francisco, CA, United States, April 2-6, 2017 CHED-022.
- “Green chemistry innovations through the lens of thermodynamics” Warner, John, 252nd ACS National Meeting & Exposition, Philadelphia, PA, United States, August 21-25, 2016 CHED-123.
- “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.
- “Concrete solar cells? An investigation into an alternative form of alternative energy” Ackley, Brandon; Bianchini, Jason; Warner, John C., 249th ACS National Meeting & Exposition, Denver, CO, United States, March 22-26, 2015, CHED-163.
- “Warner Babcock Institute for Green Chemistry: Inventions in sustainability” Warner, John C., 248th ACS National Meeting & Exposition, San Francisco, CA, United States, August 10-14, 2014 SCHB-6.
- “Teaching toxicology in the chemistry curriculum” Cannon, Amy S.; Warner, John C., 248th ACS National Meeting & Exposition, San Francisco, CA, United States, August 10-14, 2014 CHED-174.
- “Green Chemistry and innovation: SCHB perspective” Warner, John C.; Pont, Joseph L. 248th ACS National Meeting & Exposition, San Francisco, CA, United States, August 10-14, 2014 CHED-130.
- “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.
- “Green Chemistry Commitment: Pathways for green chemistry adoption in higher education”, Cannon, Amy S.; Warner, John C., 247th ACS National Meeting & Exposition, Dallas, TX, United States, March 16-20, 2014, CHED-202.
- “Weaving mechanistic toxicology into the chemistry curriculum”, Warner, John C. 17th Annual Green Chemistry & Engineering Conference, Bethesda, MD, United States, June 18-20, 2013, GCE-177.
- “Green Chemistry Commitment: Transforming chemistry education”; Cannon, Amy S.; Warner, John C.; Anderson, Kate, 245th ACS National Meeting & Exposition, New Orleans, LA, United States, April 7-11, 2013, CHED-79.
- “Green chemistry: The missing element”; Warner, John C., 245th ACS National Meeting & Exposition, New Orleans, LA, United States, April 7-11, 2013, CHED-1.



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- “Green chemistry: Theory and practice”; Warner, John C.; 244th ACS National Meeting & Exposition, Philadelphia, PA, United States, August 19-23, 2012, CHED-135.
- “Environmental concerns and chemical solutions: A first year chemistry course”; Warner, John C.; Cannon, Amy S., 243rd ACS National Meeting, San Diego, CA, United States, March 25-29, 2012, CHED-1563.
- “Green chemistry: New directions in science”; Warner, John C., 243rd ACS National Meeting, San Diego, CA, United States, March 25-29, 2012, CHED-8.
- “History and Principles of Green Chemistry”, Warner, John, 43rd Western Regional Meeting of the American Chemical Society, Pasadena, CA, United States, November 10-12, 2011, WRM-160
- “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.
- “Green Chemistry: Sustainability with Nature’s Resources” Warner, John C. 241<sup>st</sup> ACS National Meeting, Anaheim, CA, March 27-31, 2011. CHED-1
- “Food and medicines of the future: The role of green chemistry” Warner, John C. 240th ACS National Meeting, Boston, MA, August 22-26, 2010. CHED-1
- “Green Chemistry Through Collaborative Innovation” Warner, John C. 239<sup>th</sup> ACS National Meeting, San Francisco, CA March 21-25, 2010. ORGN-347.
- “Green Chemistry: A Call to Arms” Warner, John C. 239<sup>th</sup> ACS National Meeting, San Francisco, CA March 21-25, 2010. CHED-1.
- “Town Hall Conversation with California Green Chemistry Initiative” Warner, John C. 239<sup>th</sup> ACS National Meeting, San Francisco, CA March 21-25, 2010. SUST-11
- “There has Never Been a Better Time to Be a Chemist” Warner, John C. 37<sup>th</sup> 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. 235<sup>th</sup> ACS National Meeting, New Orleans, LA April 6-10, 2008. IEC-126
- “Green chemistry laboratory and ACS SEED students: A unique match” Trakhtenberg, Sofia; Cannon, Amy S.; Boggs, Roger A.; Warner, John C. 234<sup>th</sup> ACS National Meeting, Boston, MA, August 19-23, 2007. CHED-120.
- “Solution based sustainability centers” Warner, John C. 234<sup>th</sup> ACS National Meeting, Boston, MA, August 19-23 2007. CHED-011.
- “Green Chemistry and Entropic Control in Materials Design” Warner, John C.. 35<sup>th</sup> Northeast Regional Meeting of the American Chemical Society, Binghamton, NY, October 5-7 2006. NRM-290
- “Green Chemistry with Thymine Containing Photopolymers” Saito, Kei; Bianchini, Jason; Warner, John C. 35<sup>th</sup> Northeast Regional Meeting of the American Chemical Society, Binghamton, NY, October 5-7 2006. NRM-218.
- “Green Chemistry: Necessary Steps to a Sustainable Future” Warner, John C. *Chemistry and Sustainable Development, 6<sup>th</sup> ANQUE International Congress of Chemistry*. Puerto de la Cruz, Tenerife, Spain December 5-7, 2006. Plenary Lecture
- “Core-bound nano micelles based on hydrogen bonding and photocrosslinking of thymine.” Saito, Kei; Ingalls, Laura R.; Warner, John C. 232<sup>nd</sup> ACS National Meeting, San Francisco, CA, Sept. 10-14, 2006. POLY-353.
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- “K-12 outreach and science literacy through green chemistry.” Cannon, Amy S.; Warner, John C. 232<sup>nd</sup> ACS National Meeting, San Francisco, CA, Sept. 10-14, 2006. CHED-465.
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