

**Advancing Green Chemistry: An Action Plan for Michigan Green Chemistry Research,  
Development, and Education**  
*Status Report – October 22, 2009*

<b><i>Phase One: Building Awareness (1-12 months)</i></b>			
<u>Action 1: Define the Scope and Priorities of the Green Chemistry Program</u>			
	<b>Goal:</b> Define parameters and priorities of the Green Chemistry Program, and propose metrics and means for measuring progress.	<b>Done:</b> Green Chemistry Program Parameters released to web. Defines scope and boundaries for the Green Chemistry Program.	<b>To do:</b> Propose metrics and means for measuring progress.
<u>Action 2: Build a Resource Clearinghouse for Green Chemistry Activities in the State</u>			
	<b>Goal:</b> Compile information on Michigan's green chemistry efforts and establish a green chemistry practitioners' network.	<b>Done:</b> Clearinghouse goals identified and the DEQ is expected to issue a grant for clearinghouse development/deployment.	<b>To do:</b> Establish a clearinghouse and practitioners' network in Michigan.
<u>Action 3: Build Support and Commitments from Key Stakeholders to Advance Green Chemistry in Michigan</u>			
	<b>Goal:</b> Develop outreach strategy to engage stakeholders in advancing green chemistry in Michigan.	<b>Done:</b> Outreach efforts are ongoing but a formal strategy has not been developed.	<b>To do:</b> Develop outreach strategy that garners support and commitment in support of the Action Plan.
<u>Action 4: Build Financial Resources for Long-term Success</u>			
	<b>Goal:</b> Determine the means for building financial resources to ensure a place for green chemistry in Michigan's future.	<b>Done:</b> No activity by State, Ecology Center has engaged several Foundations in these types of discussions.	<b>To do:</b> Develop a marketing plan aimed at engaging Foundations and other investor in supporting green chemistry.
<b><i>Phase Two: Building the Program (6-36 months)</i></b>			
<u>Action 5: Convene a Green Chemistry Research and Education Conference</u>			
	<b>Goal:</b> Plan and prepare for a Green Chemistry Conference.	<b>Done:</b> September 25, 2009, first Annual GreenUp Conference held in Detroit.	<b>To do:</b> Plan 2010 conference(s).
<u>Action 6: Create an Annual Green Chemistry Awards Program</u>			
	<b>Goal:</b> Develop criteria for awards and a consistent review process.	<b>Done:</b> First Annual Michigan Green Chemistry Governor's Award Program established – 7 winners recognized.	<b>To do:</b> Conduct 2 <sup>nd</sup> Annual Michigan Green Chemistry Governor's Awards.

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<b>Phase Two: Building the Program (6-36 months) cont.</b>			
<u>Action 7: Establish a Green Chemistry Education Network and Opportunities</u>			
	<b>Goal:</b> Form a long-term education strategy and programs that ensure green chemistry is incorporated into science and chemistry educations at all levels.	<b>Done:</b> DEQ has entered into agreements with four Michigan institutions of higher learning to develop and teach a pollution prevention, green chemistry and green engineering course designed for undergraduate students as well as one institution of higher learning to build a green chemistry education network.	<b>To do:</b> Work with the Michigan Education Association and academic institutions to form a long-term education strategy.
<u>Action 8: Build on Michigan's Existing Capacity to Advance Long-term Green Chemistry Directions</u>			
	<b>Goal:</b> Make recommendations on consolidating existing capacity within and outside the State that could be utilized to ensure long-term viability of the Michigan Green Chemistry Program.	<b>Done:</b> No specific actions in support of this effort have been undertaken to date.	<b>To do:</b> Identify and develop opportunities to build on existing capacity to advance green chemistry in Michigan.
<b>Phase Three: Building the Future (3-5 years)</b>			
<u>Action 9: Facilitate Research and Commercialization of New Innovative Technologies</u>			
	<b>Goal:</b> Develop a strategy for implementing long-term projects that illustrate growth areas and provide economic benefit to Michigan.	<b>Done:</b> No specific actions in support of this effort have been undertaken to date.	<b>To do:</b> Develop a strategy for implementing long-term projects to facilitate research and commercialization of green chemistry technologies and practices in Michigan.
<u>Action 10: Establish the Michigan Green Chemistry Program as a Model for Green Chemistry Innovation</u>			
	<b>Goal:</b> Scope the feasibility of establishing a Green Chemistry Innovation Center.	<b>Done:</b> No specific actions in support of this effort have been undertaken to date.	<b>To do:</b> Scope the feasibility of establishing a Green Chemistry Innovation Center.