

# Greener Materials Research Symposium: *“See what you can do with a little seed funding!”*

May 23, 2011 from 2:00 to 6:00 pm at UML’s Alumni Library with poster viewing starting at 1:00 pm

Time	Topic	Speaker	Desired Outcome
1:00	Posters set up and available for viewing		
2:00	Welcome	Mike Ellenbecker, Director of TURI	TURI’s connection with UML and industry
		George Kachen, CVIP	UML connections with industry and intellectual property
2:10	Setting the Context	Pam Eliason	Why does TURI fund research Request for research proposals for FY2012 Introduce the agenda
2:15	Research Context	Molly Jacobs	The use of asthmagens by Massachusetts companies
<b><i>TURI-Funded Research in Greener Materials</i></b>			
2:25	BPA-free epoxies	Daniel Schmidt, Dept of Plastics Engineering, UML	
2:35	BFR-free resins	Jayant Kumar & Ram Nagarajan, Dept of Plastics Eng and Center for Advanced Materials	
2:45	Formaldehyde-free binders	Emmanuelle Reynaud, Dept of Mechanical Engineering	
3:00	Small Group Discussions	Answering the questions: <ul style="list-style-type: none"> <li>• What are the current research needs of industry in Mass</li> <li>• What materials choice challenges do companies see on the horizon</li> <li>• What are key performance needs</li> <li>• What are unique/challenging testing equipment needs</li> </ul>	
3:20	Report out	Pam will facilitate to tease out main points	
3:30	<b><i>Break and Poster Viewing</i></b>		
<b><i>TURI-Funded Research in Safer Processes and Products</i></b>			
3:45	Ozone cleaning and disinfection	Seongkyu Yoon, Dept of Chemical Engineering and Biomanufacturing Center	
3:55	Safer surfactants for cleaning products	Ram Nagarajan & Ryan Bouldin, Dept of Plastics Engineering	
4:05	Small Group Discussions (4x10)	Answering the questions: <ul style="list-style-type: none"> <li>• What industry partnerships are needed</li> <li>• How can UML assist</li> <li>• What opportunities for cross-center collaborations would be key</li> <li>• What are future process and product challenges industry is facing</li> </ul>	
4:25	Report out	Janet will facilitate to tease out main points	

Time	Topic	Speaker	Desired Outcome
4:35	<i>Break and Poster Viewing</i>		
<b><i>TURI-Funded Research in Emerging Technologies</i></b>			
4:50	Nano-soldering	Zhiyong Gu, Dept of Chemical Engineering	
5:00	Nano-surface finishes	Sanjeev Manohar, Dept of Chemical Engineering	
5:10	Lead-free electronics consortium	Sammy Shina & Greg Morose, Dept of Mechanical Engineering and TURI	
5:20	Small Group Discussion (4x10)	Answering the questions: <ul style="list-style-type: none"> <li>• What are the current and future research needs of industry in Mass</li> <li>• What other industry/academic consortia should we consider</li> <li>• How can we address intellectual property challenges</li> </ul>	
5:40	Report out	<b>Greg</b> will facilitate to tease out main points	
5:50	<b>Wrap up</b>	Pam <ul style="list-style-type: none"> <li>• Key points heard from small groups</li> <li>• Encourage participation by both industry and academia in more research to identify solutions to the need for “greener” materials</li> </ul>	
6:00	<i>Adjourn</i>		