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# Public, Private and University Collaboration: Applying a Retrospective Study of the Central Massachusetts Bio-Medical Cluster, Cluster Project Summary for Mosakowski Institute

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# Public, Private and University Collaboration: Applying a Retrospective Study of the Central Massachusetts Bio-Medical Cluster, Cluster Project Summary for Mosakowski Institute

## **Abstract**

Three Clark faculty members are studying the development of the Worcester Biotechnology Cluster for any lessons it might hold for current efforts to catalyze the growth of a sustainable energy/green jobs cluster in Worcester or elsewhere. Mary Ellen Boyle (GSOM), Jennie Stephens (IDCE/ESP), and Jing Zhang (GSOM) have conducted extensive in-depth interviews and combed the literature of cluster development to produce several articles and working papers.

## **Worcester BioMed/Green Cluster Study**

**Full Project Title:** Public, Private and University Collaboration: Applying a Retrospective Study of the Central Massachusetts Bio-Medical Cluster to Considering Green Energy Cluster Development

### **Research Team**

**Faculty:** Mary-Ellen Boyle (GSOM), Jennie C. Stephens (IDCE), and Jing Zhang (GSOM)

**Post-Doc:** Steve McCauley (Marsh Institute Research Associate)

**Graduate Students:** Lisa Kwiatkowski (GSOM), Angie Marshall (IDCE/ES&P '12), Jered Ulschmid (GSOM)

### **Publications to Date (Additional Publications in Progress)**

McCauley, S.M. and Stephens, J.C. 2012. Green Energy Clusters and Socio-Technical Transitions: Analysis of a Sustainable Energy Cluster for Regional Economic Development in Central Massachusetts, USA. Accepted in *Sustainability Science*. Publication expected in spring 2012.

Stephens, J.C. and S. McCauley. *Clusters in Transition: Analysis of a Sustainable Energy Cluster Initiative in Worcester, Massachusetts, USA*. Invited chapter contribution to book entitled Sustainable Lifestyles in a New Economy: Ecological Macroeconomics, Socio-technical Transitions, and Social Practices Edited by Maurie Cohen, Halina Brown, and Philip Vergragt. Edward Elgar. Publication Expected Summer 2012.

Boyle, ME., L. Ross, and J.C. Stephens. 2011. Who has a Stake? Stakeholder Salience and the Sustainability of Community-University Partnerships. *Gateways: International Journal of Community Research and Engagement*. Vol. 4 p. 100-118

### **Presentations**

McCauley, S. 2012. Hidden in Plain Site: The Promising but Impeded Vision of Community-based Green Regional Development. Sustainable Consumption Research and Action Initiative. March 8-10, 2012 Workshop: Challenging Consumerism: Toward Living Well Sustainably. Vancouver, British Columbia. Canada

McCauley, S. 2012. New Spaces of Governance in the Pursuit of a Green Economy: Analysis and Practice in Worcester, Massachusetts. February 14-18, 2012. 108th Annual Meeting of the Association of American Geographers. New York City. USA

McCauley, S. 2011. Innovative Forums for Environmental Governance: Experiences with Energy Sustainability in the Urban Context. Environmental Policy Making Series, 11<sup>th</sup> Study Meeting. July 11, 2011. Research Institute for Humanity and Nature, Kyoto, Japan

Stephens, J.C. 2011. Green-Energy Cluster Development: Analysis of a Bridging Organization in Worcester, Massachusetts, United States. *17th Annual International Sustainable*

*Development Research Conference: Moving Toward a Sustainable Future: Opportunities and Challenges.* May 9, 2011. Columbia University, New York, NY, USA

Zhang, J. 2011. The Development of Knowledge-based Cluster as a Strategy to Revitalize Old Industrial City. May 2011. Presentation at the Beijing Jiaotong University, Beijing, China

Stephens, J.C. 2011. Green-Energy Cluster Development in Worcester, Massachusetts: The Role of Universities and other Bridging Organizations. Presented at the American Association of Geographers Annual Meeting. April 16, 2011. Seattle, WA, USA

Boyle, ME, Stephens, J.C. and Yang, J. 2010. Public, Private and University Collaboration: Applying a Case Study of the Central Massachusetts Bio-Medical Cluster to Considering Green Energy Cluster Development. Invited joint guest lecture (all three faculty presented) in IDCE IDCE 30261 Globalization, Immigration and Knowledge-Driven Industries. Invited by Professor Ramon Borges-Mendez. November 9, 2010. Clark University, Worcester, MA. USA

Zhang, J. 2010. Model of Collaboration: A Case Study of Central Massachusetts Bio-Technology Industry. October 2010. Presentation at the North China Electricity University, Beijing and Baoding, China.

Boyle, Mary-Ellen. 2009 "Institutionalizing the 'Green Cluster' - Building A Partnership for Urban Sustainability." September. 2009 Association for Sustainability in Higher Education Annual Meeting, Indianapolis, Indiana USA

Boyle, Mary-Ellen. 2009 "University-Community Partnerships for Sustainable Development: A Comparative Study of Tucuman, Argentina and Worcester, Massachusetts, USA" with Jennie C. Stephens and Maria E. Hernandez. July 2009. Presented at 15th Annual International Sustainable Development Research Conference, Utrecht, Netherlands.

### **Outreach to Local Communities**

Invited Research Team Presentation Summarizing Lessons Learned, Mass Biomedical Initiative (MBI) Board Meeting. April 19, 2012. Tufts Veterinary School, Grafton, MA

Mary-Ellen Boyle was invited to participate as a consultant to the Worcester Biotech Initiative on their strategic planning process. She attended Board meetings over the course of the year, serving as "recorder" and assisted with drafting and conceptualizing their strategic plan.

Jennie Stephens & Mary-Ellen Boyle have been official observers of the Institute for Energy and Sustainability organization, have attended several IES steering committee meetings and have been invited to participate in IES events.

Angela Marshall conducted her ES&P Masters Practitioner Project with IES, preparing for them a comparative assessment of Sustainability intermediary organizations in Cleveland and Portland.

## **Student Work**

Marshall, Angie. 2012. Intermediary Organization for Urban Sustainability: Portland, Cleveland, and Worcester. A Report for Worcester's Institute for Energy & Sustainability ES&P Masters Final Practitioner Project. March 2012.

Kwiatkowski, Lisa. 2011. The Green Puzzle Stakeholder Management and Visions of Sustainability in Worcester, MA. A Case Study Teaching Resource.

Kwiatkowski, Lisa. 2011. Worcester Biotechnology Cluster: A Chronology. November 2, 2011. Clark University Fall Fest. Worcester Biotechnology Cluster: A Chronology.