

Lawrence Tech: A Catalyst for Economic Recovery

New Economy and Quality of Life Committee
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Lawrence Tech Mission & Vision

Mission:

- To develop leaders through innovative and agile programs embracing theory and practice

Vision:

- Producing Leaders with an Entrepreneurial Spirit and Global View

*A Private University with a Public Purpose
serving as an Economic Development
Catalyst in Michigan*



About Lawrence Tech

- 4,500 Students; 26 States; 25 Nations
- 17% International Student Population
- 13:1 Student/Faculty Ratio
- Over 80 Associate, Bachelor's, Master's and Doctoral Programs
- Largest College of Architecture in Michigan; Top 7 in the U.S.
 - Nearly 50% of licensed Architects in MI are Lawrence Tech grads
- 90% of Alumni remain in Michigan
- First of a kind Leadership Program
 - Outside the 3 Military Academies



RECOVERY *starts here*

- 400 newly created "Recovery Grants"
- 50 percent of tuition for eligible displaced workers or their dependent children
- Personally-focused career services to match qualified workers with innovative companies that have employment opportunities.
- \$3 million investment by Lawrence Tech



RECOVERY *starts here*

- Results:
 - 1st in Michigan – and the US – to offer a comprehensive program for Displaced Workers
 - 322 – ~~225~~ Recovery Grants Awarded
 - 2,500 Displaced Workers attended Career Networking Receptions; 2 more in 2009
 - 90 Employers – that have available jobs – participated in Career Networking Receptions
 - 25 New Certificate Programs being developed for Displaced Workers; Plus Additional Academic Degree Programs

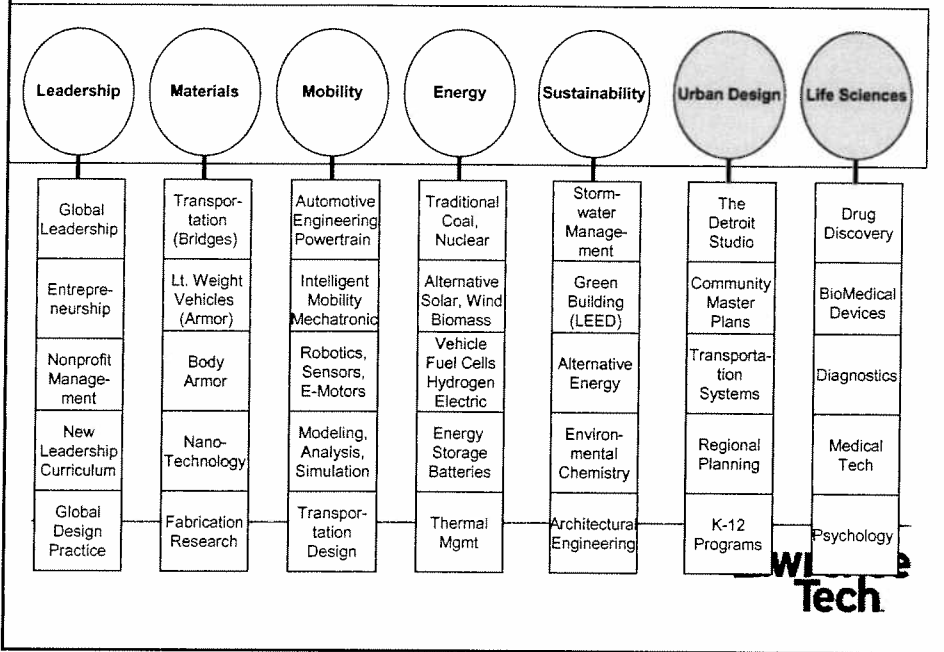


Economic Development

- Applied Research; 7 Centers of Excellence
 - Moving Research to Reality
- CIMR: Center for Innovative Materials Research
- Great Lakes Stormwater Management Education Center
 - Low Impact Development (LID) SEMCOG; MDEQ
- The Detroit Studio – Sustainable Communities – Celebrating 10 Years in New Center Area of Detroit
- Osborn Entrepreneurship & Microenterprise Project
 - Skillman Foundation Grant
- Feasibility Study Collaborative Center for Innovation and Entrepreneurship (proposal) U.S. DOC, EDA
- Kern Entrepreneurial Education Grant

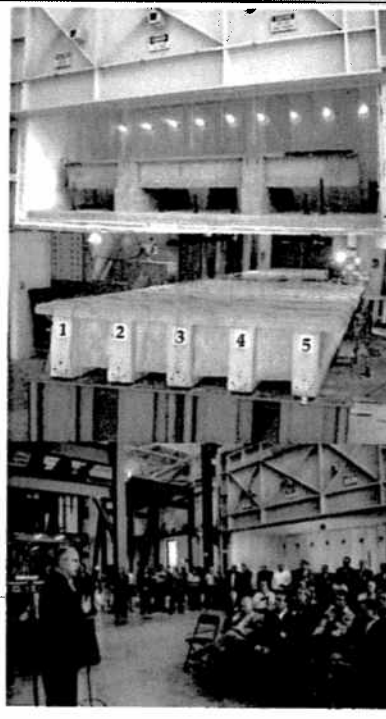


Lawrence Tech Centers of Excellence

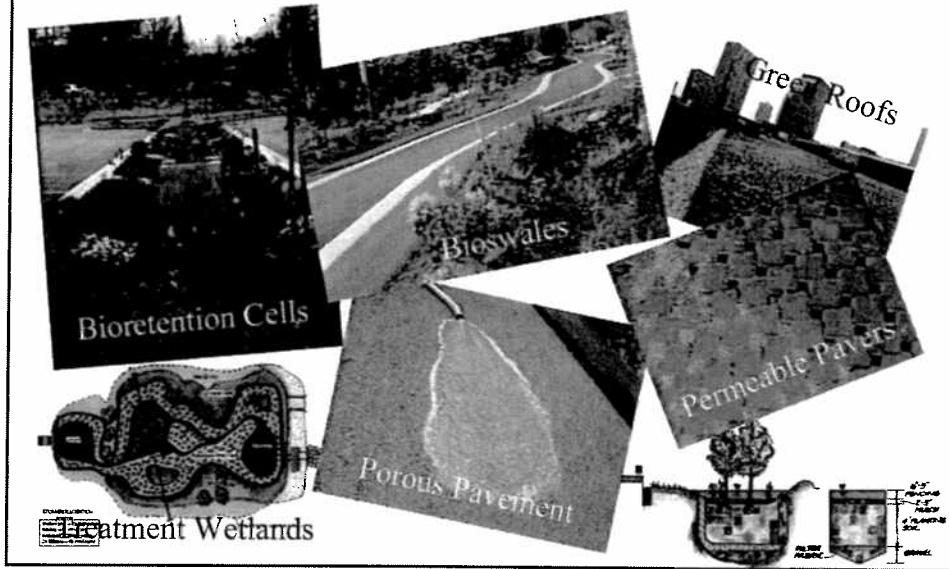


Center for Innovative Materials Research

- \$6.2M Federal Funding
- \$900K MEDC 21CJF Award
- MDOT Center of Excellence
- 1st Carbon Fiber Bridge in U.S.
- Corrosion Free
- Stronger than Steel
- Improves Infrastructure Funds
- Job Creation; CF Manufacturing
- Lightweight Vehicles & Armor



Lawrence Tech Stormwater Management Education Center



Urban Design & Master Plans



Kern Entrepreneurship Grant

- \$1.15M Kern Family Foundation Grant
 - Modify 30 Courses taken by Engineering Students to develop the Entrepreneurial Mindset
 - Introduce Entrepreneurial Multidisciplinary Student Projects
 - Establish an Entrepreneur-in-Residence program
 - Create an Entrepreneurial Co-op and Internship Program
 - Establish a Regional Innovation Competition, Entrepreneurs Quest.
 - Hold Entrepreneurial Mindset Workshops for Faculty and University Leadership.



Students & Applied Research



TARDEC Fuel Cell Research

DTE Energy Hydrogen Power Park



10 kW Photovoltaic Demonstration Project



Intelligent Ground Vehicle Competition Fuel Cell Robot (H2Bot)



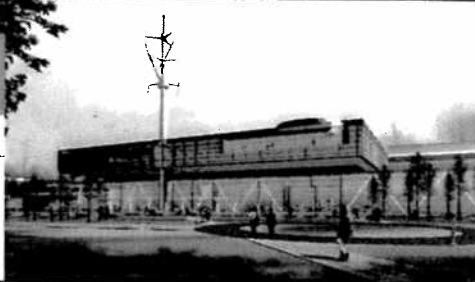
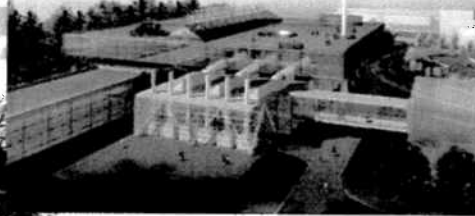
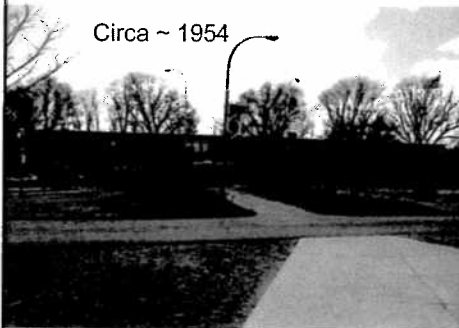
Formula Zero ~ Element One

Lawrence Tech is the only University in North America participating



Renovated Engineering & Science Building

Circa ~ 1954



Renovated Engineering & Science Building

- LEED-Certified, Energy Efficient Technology
- Shovel-Ready within 120 days; Completed in 18 mo
- Advances project 3-5 years ahead of plan
- 1,200 primary & ancillary Michigan-based construction jobs
- 100 permanent science, technology, engineering, and math (STEM) faculty and research positions



Renovated Engineering & Science Building

- Academic and Applied Research Focus Areas:
 - Alternative Energy and Energy Storage
 - Innovative Composite and Nano Materials
 - Robotics and Intelligent Vehicle Systems
 - Advanced Automotive Power and Ground Mobility Systems
 - Sustainable Architectural Engineering
 - Stormwater Management and Energy Efficient Building Systems
 - Biomedical Engineering and Medical Devices
 - Environmental Chemistry, and
 - Technology-based Entrepreneurship



Lawrence Tech –
Leaders in the Making



Thank You!

