

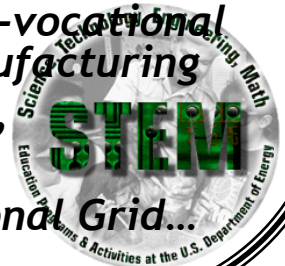
# *Massachusetts MEP STEM Symposium*

*December 3, 2008*



# What are We Doing?

- **Mathematics action plan with Mass DESE on the Educational Proficiency Plan requirement for WPS students in the Class of 2010 who are not “Proficient-240”**
  - Action plan and budget ramifications for a 4<sup>th</sup> year of required mathematics
  - Math collaborations with QCC on Accuplacer CPT (State College Placement Test)
- **Quadrant coordinators for both the Health Pipeline (North Quadrant) and the Engineering Pipeline (Doherty Quadrant)**
- **ETA at Doherty High School 340 students-maximum enrollment**
  - Internships, college placement, field trips, challenging integrated curriculum
- **Robotics Activities 500+**
- **WTHS Comprehensive Middle School Tours**
- **Women in Technology Initiatives 150+**
- **Engineering is Elementary Curriculum**
- **NSF and STEM Collaborations (3)**
  - Forest Grove Pre-engineering Cluster
  - CM STEM Collaborative
  - QCC Engineering/Manufacturing
- **Career Development Programs 4,000 + HS/MS**
- **EMC Activities-field trips to manufacturing facilities, forums**
- **Continuing Education Division: Electrical, Plumbing, Welding Journeyman Programs, Oil Burner Technician-HVACR & Cosmetology to follow, Pre-vocational Engineering & Health Curricula, Phlebotomy, Medicals Assistant, Manufacturing**
- **Advisory for CMREB, MAC, NSF, MOS, MWIB, QCC, WPI, U MASS Boston, Mayor’s Youth-At Risk, City Manager’s Youth Advisory, Job Corps Intel, EMC, Raytheon, U Mass memorial, St. Vincent’s, Hanover, National Grid...**



# Regional and Local Collaboration a Necessity

*Central Massachusetts Regional Employment Board*

*-Increased capacity needed-*

*WPI-Graduates, NSF Grants, IQPs, K-12 Outreach*

*QCC-NSF Grant, Engineering Graduates, WIT, Robotics*

*Worcester State College-STEM Graduates, Teacher Training*

*U Mass-Boston, Lowell, Amherst, Dartmouth, Tufts, Northeastern, MIT, Engineering  
Majors, NSF Grants*

*Department of Workforce Development-Workforce Central*

*Worcester Regional Chamber of Commerce*

*Central Massachusetts Employers Association*

*Workforce Initiatives-Machinist, et al*

*New STEM Grant aimed at at-risk youth, alternative students &  
adults for manufacturing*

*MAC Initiatives*

*Worcester Public Schools-ETA and Tech HS*

*Fitchburg State College, U Mass Boston Teacher Apprenticeship Programs*



# ***Doherty Memorial High School ETA College Acceptances 2008***

Hofstra University\*  
Indiana College  
Ithaca College  
Temple University\*  
U MASS Amherst\*  
University of Hartford\*  
UNH\*  
URI\*  
Assumption College\*  
College of the Holy Cross\*  
Mass College of Pharmacy\*  
Worcester State College  
Laboratory Institute of Merchandising  
Boston University\*  
Drexel University\*  
St Joseph's College  
Suffolk University\*  
College of New Rochelle  
Utica College  
Franklin Pierce University  
QCC\*  
UMASS Lowell\*  
WPI\*



# ***Doherty Memorial High School ETA College Acceptances 2008***

Rochester Institute of Technology\*  
Concordia College  
University of Toronto  
Brandeis University\*  
Providence College\*  
Florida Institute of Technology\*  
Wentworth Institute of Technology\*  
Tulane University\*  
University of Maryland\*  
Northeastern University\*  
UVM\*  
Clark Atlanta University  
St John's University\*  
U MASS Dartmouth\*  
Anna Maria College  
Salem State College  
Fitchburg State College  
Mass College of Liberal Arts  
Universal Technical Institute\*



# ***What Does Collaboration Look Like?***

- Regional Employment Board as the Lead Agency-Broader Macro-view and Scope***
- A comprehensive macro data collection and analysis***
- Surveys of how the present professional workforce made its way into manufacturing?***
- Increased employer involvement, commitment, reciprocal incentives***

