STEM Teacher Roundtable
Construction Engineering and Management
Duncan Stewart, PE, CCM, PSP
Pathways to STEM Careers

• My story
• STEM issues
• Encouraging students
• Diversity
• Advice to students
Duncan Stewart

- Bachelors in Engineering (Civil) Royal Military College of Canada
- Joined MBP in 1999
- Served as an Inspector, Engineer and Project Manager
- Currently serving as a Branch Manager
- Professional Engineer (PE)
- Certified Construction Manager (CCM)
- Planning and Scheduling Professional (PSP)
Global Issues:
• Aging infrastructure
• Cost constraints
• Productivity
• Sustainability

Business Issues:
• Aging workforce
• Retention of talent
• Quality
• Technology
Why Civil Engineering and Construction?
- Institutional pride
- Future problem solvers
- Money
- Security
- Low barrier to entry

Mentorship
Diversity

• Why it matters
  – It’s just good business
• Top down emphasis
  – CEO level priority
  – Make it OK to talk about it
• Networks within networks
  – Mentorship
  – Special groups (example - NAWIC)
Advice to Students

- Enjoy learning
- Remember that “It gets better”
- Get Involved
Questions?