Changing education is like trying to move a cemetery!'
Post Secondary and Industry Relations History – Q 1

• Purpose for ACAATO 1967
• Disjointed and Disconnected
• Multi-mandated
• Ministry Migration – Strengthening OCCIK

• Productivity
• Lean and Quality
• Fluidity between us
• Innovation and Nimble
• Economic and Technology Realities

• Evolution not Revolution
The Revolution Continuum

Evolution
Learning Institutions
Survival Not An Issue

Revolution
Industry and Business
Survival is Everything
Impact of Technology on Delivery and Relations – Q2

• Private vs Public Sector
• Just in Time Technology = Learning?
• Forms of Simulations
• Integration (industry with learning – ownership)
• Use Applied Projects – Out of lab and classroom
• Industrial and Manufacturing Relations Councils at College (IMRC)
• Sponsorships
‘Industry Need’ Changing TED for PS Members – Q3

• Industry delivery to us for a change
• Integration of learning with industry
• Understanding profitability/Accept Commercialization
• PS sector to accept influence by industry and business
• Increased Job Polarization in Canada

TD Economic Jobs Study 2013 (Jobs in Canada by DCE Burleton et al)
Trends in Education - Q4

- Blurring of Further vs Higher Education Divide
- **Youth Outmigration in Rural/Regional Settings**
- David Foot, population pyramid
- International students/credentials
- **Declining Tech Thinking in Feeder System**
- Declining Competence in Science and Math
- Declining Competence in Literacy
- Innovation with Hierarchy
  - *Can Industry fill these needs?*
Layering Impact of Communications Technology - Q5

- Social Media and Digital Generation /vs Industrial Technology – Does it Mean the Same?
- Action based learning for technology
- Gen ‘Y’s – What is technology to Gen ‘Y’s
- Their Impact on Industry
- Over emphasized Tech Communications and under emphasized human inter – relational communications skill
Why is Q6 Critical?

Global Issues Driving Us! SME!

• Academic Infrastructures in Decline
• STEM is downsizing when it needs to grow
• Hands on skills training is in decline in many sectors
• Students growing in adverse view of STEM
• Lack of modern equipment = resource shortages
• Outdated manufacturing curricula/not keeping pace with change
• Lack of hiring of tech and manufacturing educators
• 2011 Deloitte ‘The Manufacturing Institute ‘At the Boiling Point?’ – The Skills Gap in U.S. Manufacturing!
Global Issues for Educational and Manufacturing Organizations – Q6

SME 2012 ‘Workforce Imperative – A Manufacturing Education Strategy’ (SME)

1. Attract students to Tech & Manufacturing
2. Strong STEM foundation (Science, Technology, Engineering and Math)
3. Standard Manufacturing Accreditation/Certification
4. Rebuild Manufacturing Curricula (OMREC - Create an ‘Ontario Manufacturing Relations and Education Council’)
5. Introduce Key ‘Manufacturing’ Elements into STEM
6. Secondments to Industry for Faculty
7. Treat STEM + Manufacturing as a priority
What We Are Doing?

• College emphasis on Trades and Technology Education
• Proliferation of new T&T facilities at Ontario Colleges including Fleming and Loyalist
• Upgrading of existing equipment and training for faculty and staff
• Close relationships with School Boards and Stakeholders
• Partnership approaches to serving the sector better

• MANUFACTURING ON THE RADAR SCREEN
REFERENCES/RESOURCES

• Conference Presenter’s Topic Format and Questions
• People Without Jobs – Jobs Without People, Ontario’s Labour Market Future, Miner Mgt Consultants
• Technology Enhanced Learning LivingLab for Manufacturing Environments
• Software & Information Industry Association – Innovation Awards
• Colleges Ontario – Focus on Priorities – 2013
• ‘Strengthening Ontario’s Centres of Creativity, Innovation and Knowledge’ MTCU – 2012
• Workforce Imperative: A Manufacturing Education Strategy, SME 2012