

MOHAWK
COLLEGE OF APPLIED ARTS AND TECHNOLOGY

McMaster
University

Mohawk-McMaster Partnerships

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Presenter:
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Overview

1. Guiding Principles
2. Origins and Rationale
3. Collaborative Programs
4. Governance and Agreements
5. Expanding Opportunities




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McMaster University and Mohawk College Guiding Principles for Partnership

- To develop innovative pioneering programs by drawing on each institution's strengths
- To provide innovative educational programming to ensure accessibility and respond to changing technologies
- To provide opportunities for applied research and development
- To collaborate with industrial partners in education and research
- To share educational resources and services
- To develop processes for sharing revenue derived from the partnership
- To retain the integrity of the certificates, diplomas and degrees of Mohawk College and McMaster University
- To recognize that the agreement should not limit the partners from entering into arrangements with other institutions



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Origins and Reasons for Partnership

- Opportunity for Joint Venture
- Need for New Space
- Building on a history of co-operation






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Chronology of Events Institute for Applied Health Sciences

- 1992 – 1993 - Presidents identified opportunity for Joint Partnership
- 1993 - Feasibility Study – Dr. Stuart Smith funded by MTCU
- 1994 - Report with recommendations presented to MTCU
- Key recommendation – to build a new joint facility - \$30M
- 1995 - Capital projects on hold
- 1996 - Approval to proceed with Provincial funding - \$25.85M
- 1998 - Groundbreaking – McMaster Campus
- 2000 - Mohawk-McMaster Institute for Applied Health Sciences Opens

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**Mohawk-McMaster Institute for Applied Health Sciences
Health Sciences Programs**

- Cardiovascular Technology
- Diagnostic Cardiac Sonography
- Medical Radiation Sciences (BMRSc)
- Nursing (BScN)
- Practical Nursing
- Occupational Therapist Assistant and Physiotherapist Assistant
- Personal Support Worker
- Pharmacy Technician
- Continuing Education Health Sciences Courses and Programs



All programs have clinical and field placement

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Degree Initiatives

- Integrated Collaborative Degree Programs
 - Nursing - Government supported baccalaureate entry to practice mandate - 2005
 - Official Announcement - April 12/2000
 - Mohawk/McMaster/Conestoga Collaborative
 - Degree Program Implementation - Fall, 2001
- Mohawk- McMaster Medical Radiation Sciences Advanced Diploma - Degree Program SSI grant submission June, 2002 for development funds
 - Degree Program Implementation - Fall, 2004


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Collaborative BScN Program

- 4 year degree
- fully integrated collaborative nursing program offered by Mohawk College & McMaster University
- Intake – 156 students
- Emphasis on problem-based, small group, self-directed learning
- Effective January 1, 2005, a baccalaureate degree in Nursing (BScN) will be the minimum requirement for nursing registration with the College of Nurses of Ontario




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Medical Radiation Sciences (MRSc) Program

- Intake – 150 students
- 4 year Advanced Diploma – BMRSc Degree program
- First year is common
- Program specialization in years two - four
 - Radiography
 - Ultrasonography
 - Radiation Therapy
- Fully integrated collaborative program offered by Mohawk College and McMaster University
- Awarded BMRSc (Bachelor of Medical Radiation Sciences) or BSc in Medical Radiation Sciences and an Ontario Advanced College Diploma in Medical Radiation Sciences



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Medical Radiation Sciences Program (MRSc)

Radiography Specialization


- Perform all forms of x-ray examinations
- Introduction to other advanced applications such as computed tomography and MRI

Ultrasonography Specialization

- Performs all abdominal, obstetrical and gynaecological studies
- Introduction to other advanced applications such as vascular and cardiac ultrasound

Radiation Therapy Specialization

- Use high energy radiation to treat cancer patients
- All aspects of radiation therapy including treatment planning, treatment administration and care of the cancer patient are covered



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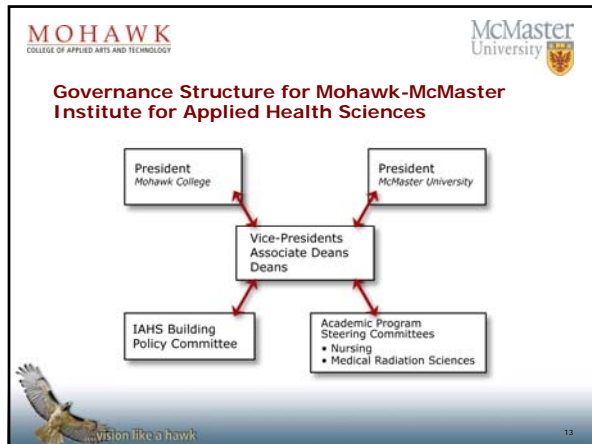
Student Enrolment

Health Sciences & Mohawk-McMaster Institute for Applied Health Sciences (IAHS)

POST SECONDARY PROGRAMS 1,500 +

CONTINUING EDUCATION STUDENTS 1,475 +

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Agreements

- McMaster University – Mohawk College Agreement
 - IAHS Governance Agreement
 - Human Resources
 - Parking
 - Security
 - Custodial Services
 - Food and Catering Services
- McMaster – Mohawk – Conestoga BScN Articles of Agreement
- Medical Radiation Sciences Agreement
- Financial Agreements
- Student Services Agreement

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Bachelor of Technology Degree Programs

What is the Bachelor of Technology?

- Aimed at students who are technologically oriented, learn by doing, enjoy laboratory subjects and are interested in science and mathematics.
- Prepares graduates for careers in “hands-on” technology applications (production, manufacturing, construction supervision, project management).
- Degree completion (after college diploma or equivalent) – steady state target about 500 FTE students.
- Four-year (after high school) McMaster degree and Mohawk diploma – steady state target about 1000 FT students.

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Bachelor of Technology Degree Programs

Why B.Tech.?

- Demand from industry for degree-level technology graduates; also demand from college diploma grads for advanced skills and degree credentials.
- Success of Manufacturing Engineering Technology degree completion program started in 1997 confirms both employer and student demand.
- McMaster-Mohawk “Think Tank” with business, government, community and education leaders (Nov. 8 2005) demonstrated demand for degrees in more fields, including programs directly from high school and the importance of including a significant component of management education to complement technical studies.

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Bachelor of Technology Degree Programs

History and Background

- Manufacturing Engineering Technology degree completion program - 1997
- Expanded program concept (more disciplines, management component and 4-year program) - February 2005.
- Academic development of new degree completion programs - 2005.
- Think tank with business, government, community and education leaders - November 8, 2005.
- McMaster Senate approves degree completion programs and 4-year Process Automation Tech program - January 2006.

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Bachelor of Technology Degree Programs

History of B.Tech. Degree Completion Programs

Three new programs started September 2006:

- **Civil Engineering Infrastructure**
- **Computing & Information Technology**
- **Manufacturing Engineering Technology**

Approximately 125 students in these programs by September 2007

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Bachelor of Technology Degree Programs Energy Engineering Technologies

- Energy Engineering Technologies degree completion program developed with \$190,000 funding from College-University Consortium Council – start date is September 2008.
- Program focus is alternative and nuclear energies



Bachelor of Technology Degree Programs History of B.Tech. 4-Year Programs

- 4-year program curricula development completed and approved – January 2007
- Three 4-year programs
 - Automotive & Vehicle Technology**
 - Biotechnology**
 - Process Automation Technology (conversion of Mohawk applied degree program)**
- Mohawk applied degree students in Process Automation Technology were transferred to B.Tech. Levels II and III in Sept 2007
- Decision to proceed with recruitment for Sept 2008 made on basis of Minister Bentley's letter (Sept 4 2007) which stated assurance that securing appropriate operating funding for this program would be a high priority for future Ministry budgets



Bachelor of Technology Degree Programs Key Features of 4-Year Programs

- All programs have 7 course management component
- All programs have 8 course Breadth of Learning component
- All programs have a Program Advisory Committee
- All programs have mandatory co-op (three academic terms or 12 months in total)
- All courses currently taught at Mohawk campus



Expanding Opportunities

1. Joint college/university research
2. Expansion of Health programs
3. Expansion beyond Health programs
4. Pathways from College to University, e.g. Practical Nursing to BScN, Pre-Health to BScN
5. Joint Professional Development
6. Partnerships with Industry
7. Interprofessional Health Sciences Education
8. Expanding Simulation and Applied Learning
9. HSPnet Provincial initiatives

