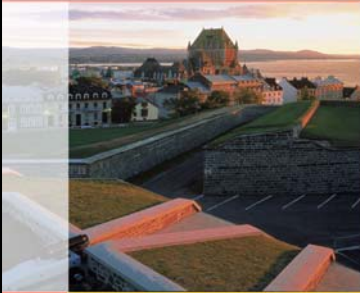


LAVAL UNIVERSITY - CANADA



XXIII International FIG Congress
Munich 2006



Reinventing Surveying & Geomatics Education in Canada since 1907



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Department of
Geomatics Sciences



The next 15 minutes...



- About Laval University
- Evolution of the Surveying programs at Laval U.
- The renewed curricula
- Why new programs?
- The Dept. of Geomatics Sc.
- The challenges
- An invitation...



The cradle of French civilization in North America



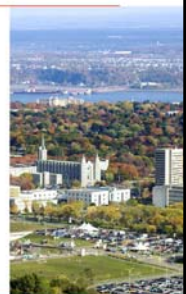
A Remarkable History

Université Laval is the oldest French-language university in North America, with a history going back over 340 years.



Université Laval at a glance

- 17 faculties
- 400 programs in all major fields
- 38,000 students, including 3,500 foreign students
- 2,000 professors and lecturers
- 4,000 support and research staff
- One of Canada's ten leading research universities
- A vast campus with a city vibe



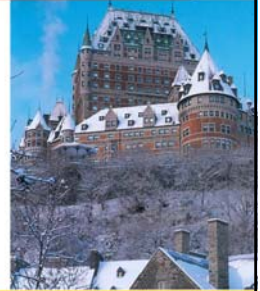
The Québec education system

Level	Number of years of full-time study
Preschool	1–2 years (optional)
Elementary	6 years
Secondary	5 years
College	2 years (preuniversity) 3 years (technical)
University:	
Bachelor's Degree	3 or 4 years
Master's Degree	2 years
Ph.D.	3 to 5 years



Teaching Surveying since 1907

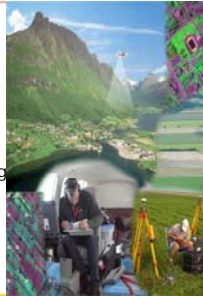
- 1907: Foundation of the first School of Surveying in North America
- 1965: Implementation of Graduate programs: M.Sc. - Ph.D.
- 1986: Bachelor's Degree in Geomatics
A new approach – 2 profiles
- 2006: A new generation of programs



A new generation of undergraduate programs

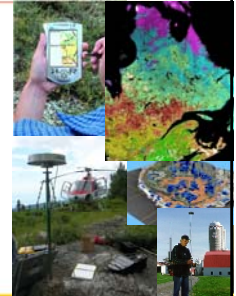
2 undergraduate programs – 4 years

- ✓ Bachelor's Degree in Geomatics Sciences
 - to train Land Surveyors
- ✓ Bachelor's Degree in Geomatics Engineering
 - to train Geomatics Engineers



A new generation of graduate programs

- ✓ 1 year short program in Geomatics
- ✓ Master's Degree in Geomatics Sciences
 - Research Degree
 - Professional Degree
 - GeoInformatics
 - Land administration
 - Applied Geomatics
- ✓ M.B.A. in Geomatics Management
- ✓ Ph.D. Degree in Geomatics Sciences



A wide variety of adapted programs



- More **open** to other disciplines
- More oriented towards **international** students and society's needs



Evolution of the industry and society's needs

- From static data acquisition towards dynamic and realtime acquisition
- From data acquisition towards data management and dissemination
- From black boxes towards professional services
- From local applications towards distributed standardized networks
- From expensive and specialized data/techn. towards free and easy-to-use data/techn.
- From surveying towards land right protection infrastructure



Evolution of education and students

- From local education towards on-line education
- From local students and programs towards international supply & demand
- From a local increasing demography towards a local decreasing demography
- From a few generic programs towards many specialized programs
- From an homogeneous profile of students towards a variety of "shopping " students



The Department of Geomatics Sciences in 2006

- 20 Faculty members
 - Experts of various disciplines
- 200 students
 - 140 undergraduate
 - 60 graduate
 - 100% of employment
- An exceptional research environment
 - A Center for Research in Geomatics
 - Research and Industrial Chairs
 - Host of the Canadian Network of Center of Excellence GEOIDE
 - Facilities and infrastructure



Challenges...



- Recruitment!
- E-Learning
- Continuing Education
- Balance between
 - Surveying and Geomatics
 - knowledge and know-how (ability-based programs)
 - program accreditation and society's needs
 - local and international needs
 - Training and Research



A special invitation for our 100th anniversary



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AN INTERNATIONAL GEOCONFERENCE
2 - 5 OCTOBER 2007

WWW.QUEBEC2007.CA

To find out more...



www.scg.ulaval.ca

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Thank you
Merci

