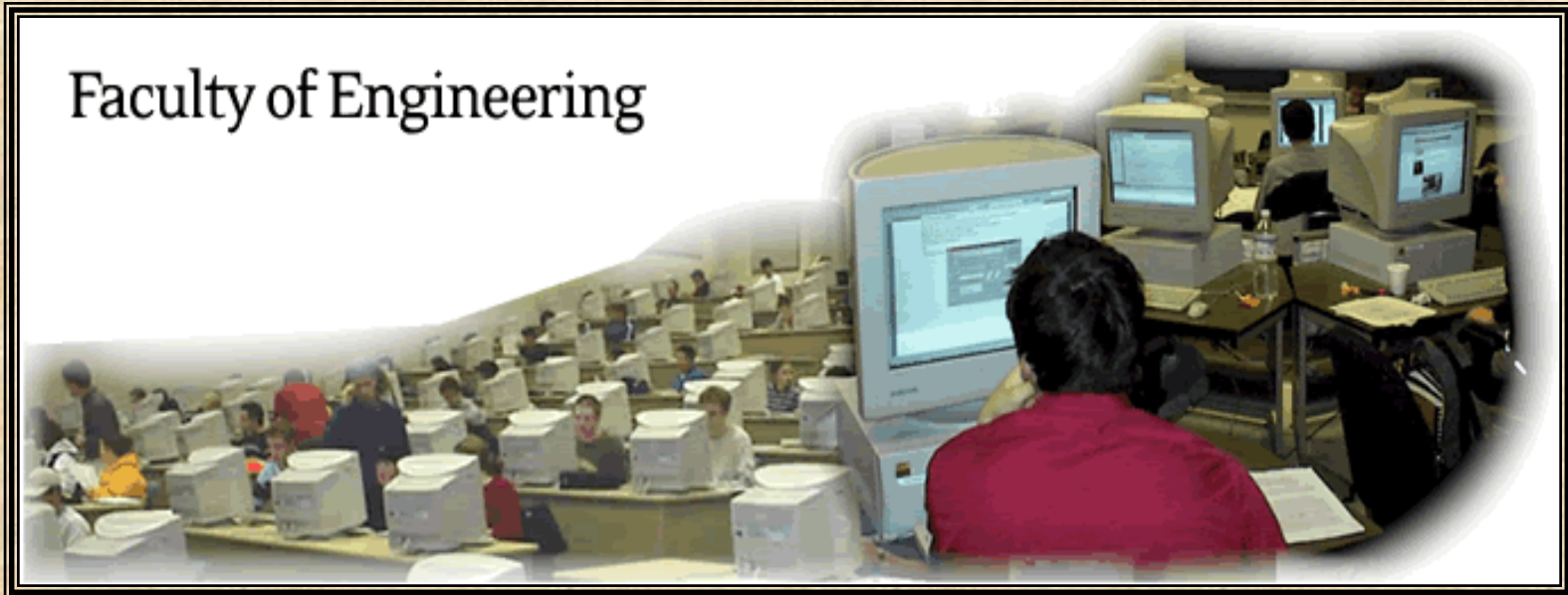


Engineering Computing

Faculty Assembly Report, January 17, 2006

Faculty of Engineering



University of
Waterloo



Overview

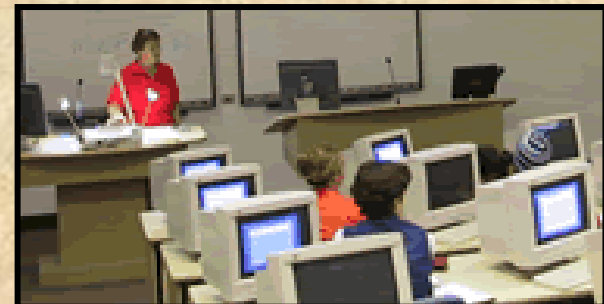
- *people*
- *EC review*
- *Nexus*
- *videoconference*
- *UCIST*
 - *ACE course management system*
 - *wireless network*
 - *Dell computer deal*



WEEF Lab E2-1310



ChemCAT Lab DWE-1507



MultiMedia Lab CPH-1346

People

- **Hector Budman**
 - *Associate Dean of Engineering (Computing)*
July 1, 2000 – June 30, 2005
- **Engineering Computing (EC)**
 - *10 staff in EC + 2 paid by IST*
- **Departmental Systems Administrators (SA)**
 - *14 - 17 staff in the departments (system administrators, SAs)*
- **Engineering Computing Committee (ECC)**
 - *7 faculty members (one from each department)*

EC review completed July'05

● *reviewers:*

- Prof. Derek McCammond, U of T***
- Mr. William Burkhard, Penn State University***

● *comments:*

- ✓ EC & departmental SAs provide good service***
- × SAs need more time for departmental service***
- × relationships need strengthening***

● *EC plan*

- encourage expansion of Nexus***
- encourage more interaction between EC & the departments***
 - monthly meetings with SA's and ESAG (SA + EC)***
 - encourage use of EC services***

EC lab facilities

8 EC computer labs / # of Nexus workstations

Multi-media / 120

Helix / 29

WEEF / 102

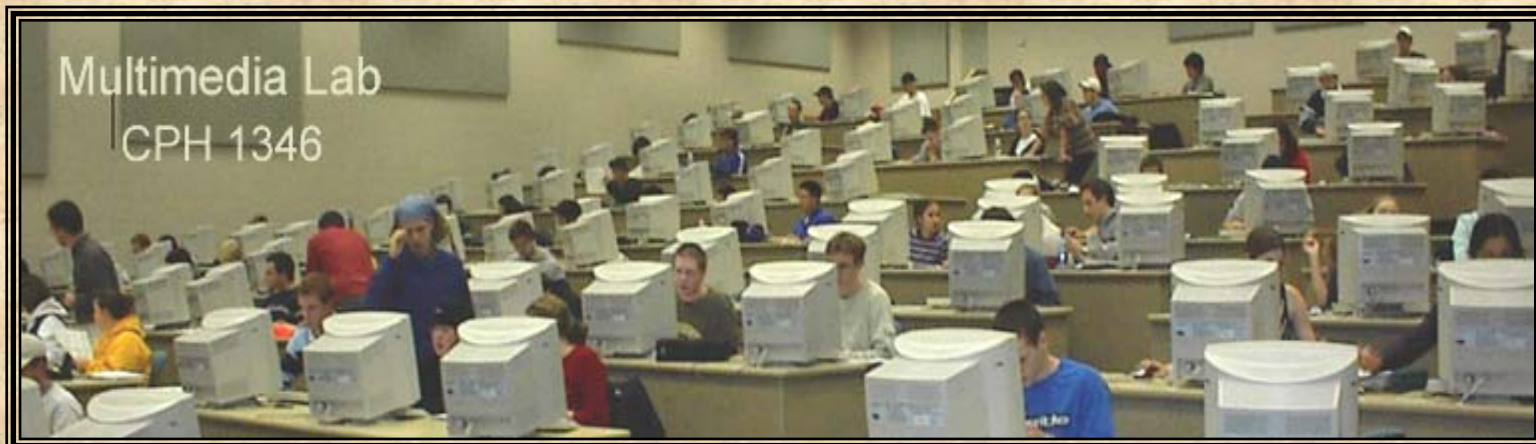
Lever / 20

Fulcrum / 16

Wedge / 32

GAFF / 30

Wheel / 20



EC lab facilities – upgrades

8 EC computer labs / # of Nexus workstations

Multi-media / 120

Helix / 29

WEEF / 102

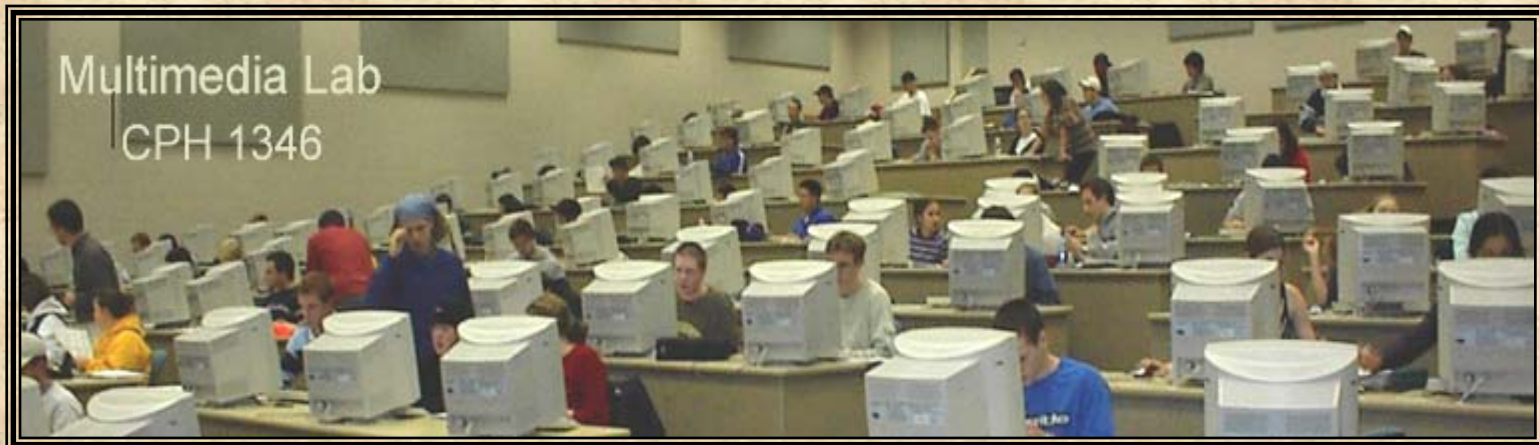
Lever / 20

Fulcrum / 16 '06

Wedge / 32

GAFF / 30 '06

Wheel / 20



Nexus on campus

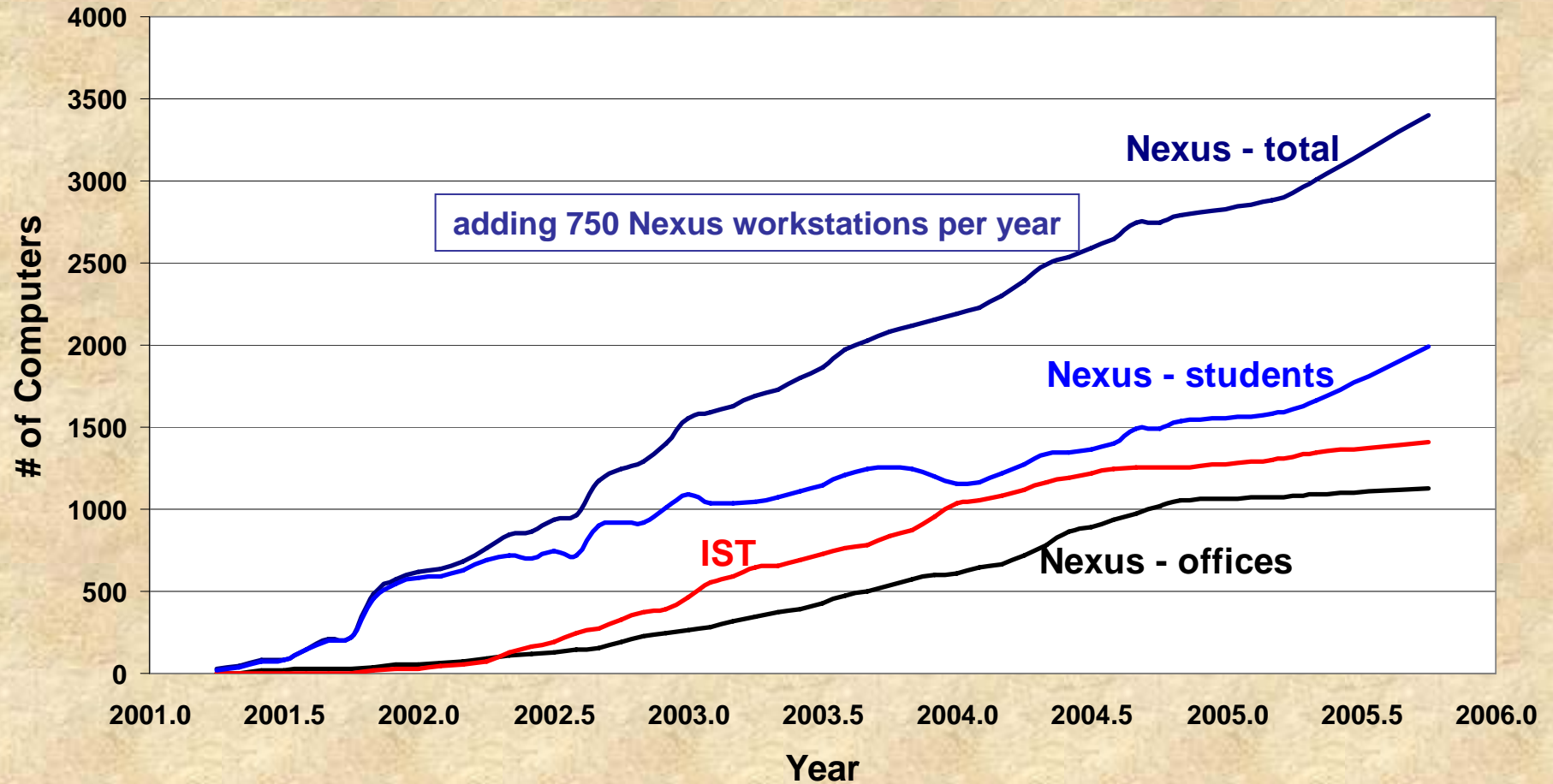
- ***designed by EC in 2001***

- ***used in all 6 faculties on campus***
 - ***3480 Nexus workstations on campus***
 - ***750 new Nexus workstations / year***
 - ***1711 Nexus workstations in Engineering***
 - ***60% of all workstations in Engineering***
 - ***248 new Nexus workstations added in 2005***

Nexus in Engineering

	2003	2004	2005	2006
<i>Engineering Computing</i>	433	473	504	515
<i>Architecture</i>				68
<i>Chemical</i>	154	241	283	300
<i>Civil</i>	56	87	90	106
<i>Electrical & Computer</i>	148	217	221	238
<i>Management Sciences</i>	44	44	44	72
<i>Mechanical</i>	7	102	208	293
<i>Systems Design</i>	36	42	39	45
<i>Total</i>	878	1206	1389	1637

Growth in Nexus at UW



Videoconference

video conference room E2-1307G, contact Hazel Austin x-2756

- ***courses:***

- ***AHS + 10 other Canadian universities***
- ***U of T***

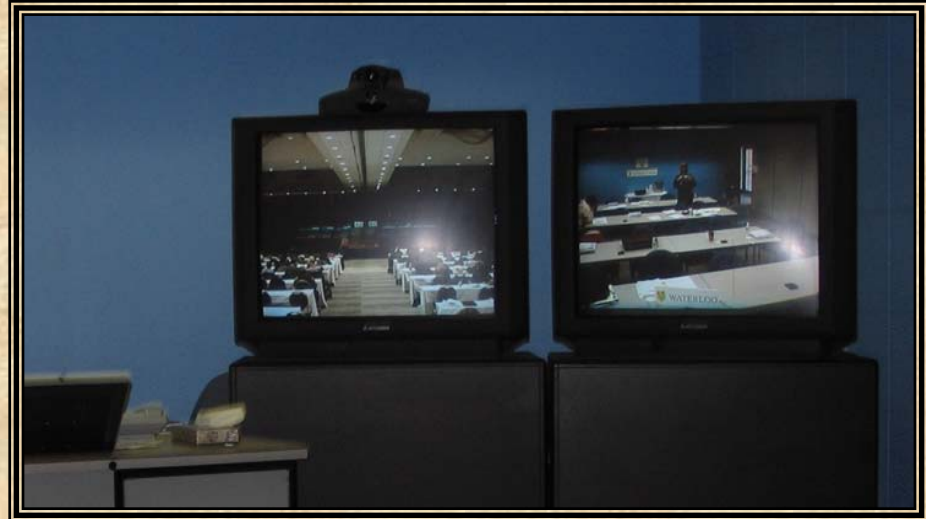
- ***R&D meetings***

- ***job interviews***

- ***private sector***

- ***PhD & MSc defences***

- ***videoconference via PC over internet***



Video Conference Room E2-1307G

UCIST

University Committee for Information & System Technology

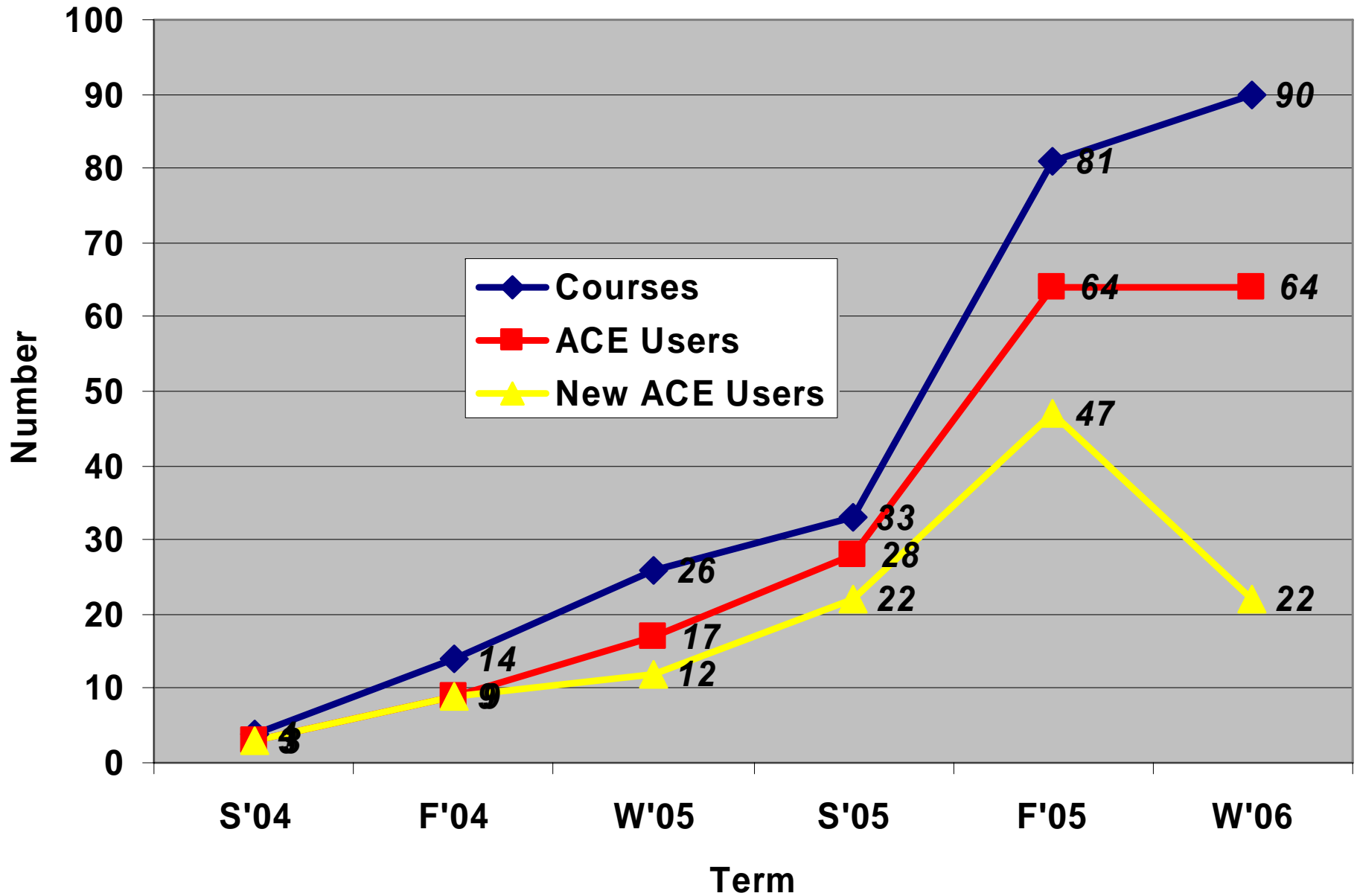
- ***ACE course management system***

- ***wireless network***

- ***Dell computer deal***

Faculty of Engineering ACE Usage

contact Antonia Palmer x- 5902 or Hazel Austin x-2756



Wireless Network

contact Martin McLeod x-2965 or Dave Walsh x-2788

- **wireless project completed in 2005**

- **136 APs (Access Points) installed**

ARCH	/ 21	E2	/ 24
CPH	/ 19	E3	/ 19 + 2
CIM (DC)	/ 5	EIT	/ 14
DWE	/ 23	RCH	/ 11
DC	/ 36*		

** APs managed by IST*

- **~800 users/day use wireless network**

Dell Computer Deal

<http://www.dell.ca/uwaterloo>

✓ ***price***

✓ ***≥ \$1065 (desktop)***

✓ ***≥ \$1368 (lap top)***

✓ ***service contract***

× ***limited selection***

EC is moving

- ***“SHARCNET” building in mid-February***
- ***1st floor***
 - ***shared machine room (SharcoNet, Science Computing, Engineering Computing, IST)***
- ***2nd floor – Science Computing***
- ***3rd floor – Engineering Computing***