WHERE ARE WE?

RMC - CAMPINAS
• Getting to Campinas
  – 100 km from SP
    • 2 hour drive

– Viracopos Airport
  • Major domestic hub (more than 100 destinations)
  • Passengers – 7th largest in Brazil – 8.8 million/year
  • Cargo – 2nd largest in Brazil
WHERE ARE WE?

• Campinas
  – GDP = US$ 18 billion
  – 1 million inhabitants
  – 20 research and technology institutes
  – High tech pole
WHERE ARE WE?

• Campinas Metropolitan Area ("RMC")
  – 19 municipalities
  – About 2.8 million inhabitants
  – GDP = US$ 50.3 billion (2010)
    • approx 3% Brazil's GDP
    • 7.8% of the State of São Paulo's GDP
  – 6% of Brazil's industrial production (3rd largest industrial region)
  – 50 of the 500 largest companies have branches here
WHO’S HERE WITH US?

• Companies at RMC
  – Motorola
  – HP
  – Honda
  – 3M
  – Tetra Pak
  – Bosch
  – IBM
  – Goodyear
  – White Martins
  – Samsung
  – Rhodia
  – Medley
  – Kraft
  – CI&T
  – Toyota
  – John Deere
WHO’S HERE WITH US?

• Research and Teaching centers at RMC
  – UNICAMP
  – PUCCAMP
  – FACAMP
  – CPQD
  – CNPEM (LNLS, CTBE, LN Bio, LNNano)
  – EMBRAPA
  – ITAL
  – IAC
  – CTI
BRAZILIAN HIGHER EDUCATION SYSTEM

- Enrollment: 5.7 million (14.4% of 18-24 cohort)
  - Public
    - Federal (58 universities)
    - State funded universities
      - São Paulo State
        » USP
        » UNICAMP
        » UNESP
  - Private
    - 75% of total enrollment
    - Mostly for-profit
    - Mostly undergraduate
WHO ARE WE?

- University of Campinas - UNICAMP
- Founded in 1966 by Zeferino Vaz

1966 – University of Campinas groundbreaking ceremony
1976 – University of Campinas
UNICAMP – MAIN CAMPUS

Today – University of Campinas
WHO ARE WE?

• Not for Profit
  – No tuition charged

• Budget
  – US$ 962 million from São Paulo State
    • 89% salaries
  – US$ 289 million from other sources
    • SUS = 25%
    • Fapesp, Capes, CNPq and Finep = 45%
THE UNIVERSITY - STRUCTURE

- 23 Faculties and Institutes
- 21 Interdisciplinary Centers

- Courses
  - 66 undergraduate
  - 142 graduate

- 6 Campuses
  - Campinas, Piracicaba, Limeira, Paulínia

- 3 Hospitals
  - 858 beds
THE UNIVERSITY - STRUCTURE

Campuses
• 2 Technical High Schools
  – Colégio Técnico de Campinas (COTUCA)
  – Colégio Técnico de Limeira (COTIL)
• 1 research center
  – The Chemical, Biological and Agricultural Pluridisciplinary Research Center (CPQBA)
• 4 higher education and research campuses

<table>
<thead>
<tr>
<th>City</th>
<th>Campus</th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campinas</td>
<td>Main Campus</td>
<td>13509</td>
<td>10479</td>
</tr>
<tr>
<td>Piracicaba</td>
<td>FOP – Faculty of Dentistry</td>
<td>346</td>
<td>622</td>
</tr>
<tr>
<td>Limeira</td>
<td>FCA – Faculty of Applied Sciences</td>
<td>1811</td>
<td>35</td>
</tr>
<tr>
<td>Limeira</td>
<td>FT – Faculty of Technology</td>
<td>1431</td>
<td>97</td>
</tr>
</tbody>
</table>
THE UNIVERSITY - PEOPLE

• Faculty: 1727
  – 98% PhD
  – 90% of the PhDs full time

• Staff: 7994
  – 42.4% in hospitals
• 3 main hospitals, 818 staffed beds
  – Hospital de Clínicas (HC)
    • Campinas – 419 beds
  – Women’s hospital (CAISM)
    • Campinas – 139 beds
  – Hospital Estadual de Sumaré (HES)
    • Sumaré – 260 beds

• 40 staffed beds at outpatient facilities (Gastrocentro, FOP, AMEs)
### Faculties
- Faculty of Agricultural Engineering
- Faculty of Applied Sciences
- Faculty of Chemical Engineering
- Faculty of Civil Engineering, Architecture and Urban Planning
- Faculty of Dentistry at Piracicaba
- Faculty of Education
- Faculty of Electrical and Computer Engineering
- Faculty of Food Engineering
- Faculty of Mechanical Engineering
- Faculty of Medical Sciences
- Faculty of Nursing
- Faculty of Physical Education
- Faculty of Technology

### Institutes
- Institute of Arts
- Institute of Biology
- Institute of Chemistry
- Institute of Computing
- Institute of Economics
- Institute of Geosciences
- Institute of Language Studies
- Institute of Mathematics, Statistics and Scientific Computing
- Institute of Philosophy and the Humanities
- Institute of Physics "Gleb Wataghin"
## Interdisciplinary Centers

<table>
<thead>
<tr>
<th>CESOP - Center of Public Opinion Studies</th>
<th>NEPA - Nucleus of Studies and Researches of Food</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS - Center of Semiconductor Components</td>
<td>NEPP - Nucleus of Studies of Public Politics</td>
</tr>
<tr>
<td>CEB - Center of Biomedical Engineering</td>
<td>NEPO - Nucleus of Population Studies</td>
</tr>
<tr>
<td>CEMIB - Multidisciplinary Center of Biological Investigation of Laboratory Animals</td>
<td>NEPAM - Nucleus of Environmental Studies and Researches</td>
</tr>
<tr>
<td>CEPAGRI - Center of Meteorological and Climatic Researches Applied to Agriculture</td>
<td>NICS - Interdisciplinary Nucleus of Sonorous Communication</td>
</tr>
<tr>
<td>CPQBA - Multidisciplinary Center of Chemical, Biological and Agricultural Researches</td>
<td>NIED - Interdisciplinary Nucleus of Informatics Applied to Education</td>
</tr>
<tr>
<td>CBMEG - Center of Molecular Biology and Genetic Engineering</td>
<td>LUME - Interdisciplinary Nucleus of Theatrical Researches</td>
</tr>
<tr>
<td>CLE - Center of Logic, Epistemology and History of the Science</td>
<td>CIDDIC - Center for Integration, Documentation and Cultural Diffusion</td>
</tr>
<tr>
<td>CMU - Memory Center of Unicamp</td>
<td>PAGU - Nucleus of Gender Studies</td>
</tr>
<tr>
<td>CEPETRO - Center of Petroleum Studies</td>
<td>NUDECR - Center for the Development of Creativity</td>
</tr>
<tr>
<td></td>
<td>NIPE - Interdisciplinary Nucleus of Energetic Planning</td>
</tr>
</tbody>
</table>
• Undergraduate:
  – 17,650 students
  – 66 courses

• Graduate:
  – 66 masters
    • 5,322 students / 1,232 dissertations in 2012
  – 60 doctorates
    • 5,779 students / 851 thesis in 2012
  – 16 specializations
    • 12,337 students
  – Also continuing studies courses
• Entrance examination ("Vestibular") 2013
  – 62563 applicants - 3320 openings - 18.8 ratio
UNICAMP undergraduate students in exchange programs abroad

<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>79</td>
</tr>
<tr>
<td>2004</td>
<td>73</td>
</tr>
<tr>
<td>2005</td>
<td>96</td>
</tr>
<tr>
<td>2006</td>
<td>125</td>
</tr>
<tr>
<td>2007</td>
<td>141</td>
</tr>
<tr>
<td>2008</td>
<td>231</td>
</tr>
<tr>
<td>2009</td>
<td>339</td>
</tr>
<tr>
<td>2010</td>
<td>325</td>
</tr>
<tr>
<td>2011</td>
<td>360</td>
</tr>
<tr>
<td>2012</td>
<td>685</td>
</tr>
</tbody>
</table>
Destination – UNICAMP
Undergraduate Students - 2012

- France: 31%
- Portugal: 17%
- USA: 15%
- Spain: 9%
- Germany: 8%
- Canada: 5%
- England: 3%
- Australia: 3%
- Mexico: 2%
- Italy: 2%
- Other: 5%
Foreign undergraduate students in exchange programs at UNICAMP
Foreign undergraduate students in exchange programs at UNICAMP - 2012

- EUA: 11%
- Haiti: 10%
- Argentina: 10%
- France: 7%
- Colombia: 7%
- Peru: 6%
- Mexico: 5%
- Spain: 5%
- Japan: 4%
- Chile: 3%
- Cape Verde: 3%
- Germany: 3%
- China: 3%
- Paraguay: 3%
- Italy: 2%
- Portugal: 2%
- Uruguay: 2%
- Guinea-Bissau: 1%
- Bolivia: 1%
- South Korea: 1%
- Taiwan: 1%
- Angola: 1%
- Ecuador: 2%

Other: 11%
Country of Origin of foreign graduate students at UNICAMP – 2012

- Colombia: 32%
- Peru: 26%
- Chile: 4%
- Argentina: 4%
- Ecuador: 3%
- Spain: 3%
- Mexico: 2%
- Pakistan: 2%
- Portugal: 2%
- Italy: 1%
- Uruguay: 1%
- Bolivia: 1%
- Haiti: 1%
- United States: 1%
- Costa Rica: 1%
- Other: 13%

Total: 626 exchange and regular
Foreign Graduate Students
(not exchange)

Year | Number
--- | ---
2003 | 419
2004 | 386
2005 | 355
2006 | 333
2007 | 377
2008 | 396
2009 | 434
2010 | 472
2011 | 500
2012 | 530
Brazilian Ministry of Education (CAPES) Graduate Program Assessment - 2010

- Every 3 years
- Scale 1 – 7
- 6 – 7 International standards
UNICAMP Graduate Programs

Ratings – total of 123 (in 2010)
Chemistry
Dentistry
Engineering
  Chemical Engineering
  Electrical Engineering
  Food Engineering
  Mechanical Engineering
Ecology
Food Science
Genetics and Molecular Biology
History
Linguistics
Mathematics
Medical Physiopatology
Physics

Applied Linguistics
Applied Mathematics
Computer Science
Dental Clinics
Dental Materials
Dental Patology
Functional and Molecular Biology
Food and Nutrition
Geosciences
Gynecology
Literary Theory
Philosophy
Scientific and Technological Policy
Sociology
Vegetal Biology
### 9 federal institutes of science and technology (INCT) at UNICAMP:

<table>
<thead>
<tr>
<th>Institute Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fotônica para Comunicações Ópticas (FOTONICOM)</td>
<td>Photonics Science and Technology for Optical Communications</td>
</tr>
<tr>
<td>Informação Quântica (INCT-IQ)</td>
<td>Quantum Information</td>
</tr>
<tr>
<td>Obesidade e Diabetes</td>
<td>Obesity and Diabetes</td>
</tr>
<tr>
<td>Sangue</td>
<td>Blood</td>
</tr>
<tr>
<td>Biofabricação (BIOFABRIS)</td>
<td>Biomanufacturing Institute</td>
</tr>
<tr>
<td>Bioanalítica (INCTBio)</td>
<td>Institute for Bioanalytics</td>
</tr>
<tr>
<td>Fotônica Aplicada a Biologia Celular (INFABIC)</td>
<td>Photonics Applied to Cell Biology</td>
</tr>
<tr>
<td>Materiais Complexos Funcionais (INOMAT)</td>
<td>Functional and Complex Materials</td>
</tr>
<tr>
<td>Tecnologias Analíticas Avançadas (INCTAA)</td>
<td>Advanced Analytical Science</td>
</tr>
</tbody>
</table>
RESEARCH – 10% OF BRAZILIAN

Articles in ISI Web of Science

2981
• Founded in July 2003
  • One of the first in a Latin American University
    – Facilitates interaction and technology transfer with companies, government
    – Stimulates innovation (events, manuals, mentoring for researchers and students)
    – Manager of the Science and Technology Park
PATENTS FILED IN BRAZIL

Creation of Inova UNICAMP


29 21 60 60 53 67 55 50 52 52 51 67 73
PATENTS FILED

Year | Foreign | Domestic
--- | --- | ---
1998 | 0 | 23
1999 | 13 | 0
2000 | 29 | 0
2001 | 21 | 1
2002 | 58 | 2
2003 | 61 | 2
2004 | 51 | 0
2005 | 66 | 9
2006 | 54 | 19
2007 | 50 | 2
2008 | 51 | 5
2009 | 52 | 5
2010 | 51 | 11
2011 | 65 | 16
2012 | 73 | 1

The chart shows the number of foreign and domestic patents filed from 1998 to 2012.
LICENSING AGREEMENTS

Active licenses = 63
• Initial area of 100,000 m² located inside UNICAMP
• Partnership with the São Paulo State Government
• Target: R&D Labs to collaborate with UNICAMP
UNICAMP RELATED COMPANIES: 245
EMPLOYEES: 10025
CAMPINAS – HIGH TECH POLE

Índice de Realização Tecnológica

Classificação segundo Inovação Tecnológica Fontos

16 - mínimo
4 - mínimo

Source: U.N. Technology Achievement Index (2001)
Os dados podem ser vistos na página
UNICAMP is open for internationalization
• Exchange students
• Exchange faculty
• Long term cooperative projects

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UNICAMP – The University of Campinas
www.unicamp.br