McLeod Institute of Simulation Science

WELCOME

MISS   McLeod Institute of Simulation Science

www.simulationscience.org

McLeod Institute of Simulation Science

REPORT 2006

MISS McLeod Institute of Simulation Science

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- ◂ **MISS General Report**
- ◂ **MISS Center Reports**
- ◂ **Classification & Reactivation of MISS Sites**
- ◂ **Request for Upgrades**
- ◂ **Request for New Center Activation in MISS/M&S Net**
- ◂ **MISS Networking & M&S Relationship**
- ◂ **Simulation Development Activities**
  - ◂◂ **Simulation Handbook**
  - ◂◂ **Simulation Dictionary**
  - ◂◂ **Simulation Syllabus**
  - ◂◂ **Simulation Education**
  - ◂◂ **Simulation Professional Development**

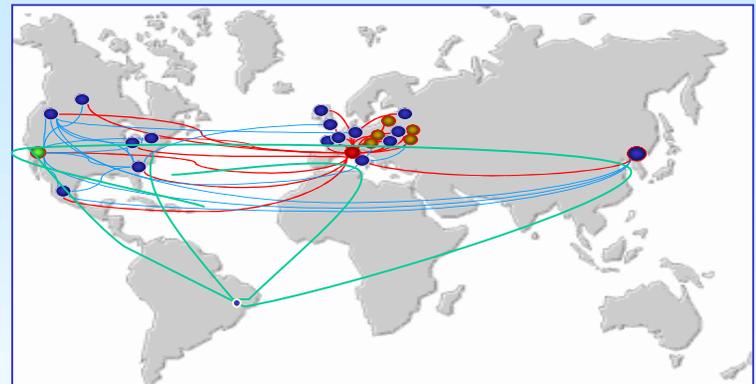# McLeod Institute of Simulation Science

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The Institute of Simulation Science is an International Network named after John McLeod, the founder of the Society for Modeling & Simulation International and the first editor of its journal, "Simulation"

The MISS consists of co-operating Centers active in professionalism, research, education and knowledge dissemination in the modeling and simulation domain.

Modeling and simulation (M&S) is an enabling technology for:

- Decision making in system design, development, optimization, control, and acquisition, as well as for sensitivity analysis, planning, and prototyping
- Understanding
- Education and training to enhance decision making and/or motor skills
- Entertainment
- Supporting real system operations
- Enriching real system operations

The MISS aims to provide an organizational structure that will serve to integrate and enrich, within its Centers, the activities of modeling and simulation expertise throughout the world.

Prof.Agostino Bruzzone, Director of MISS

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- **Director:**
  - Agostino G. Bruzzone, MISS Genoa Center, University of Genoa, Italy

- **Co-Vice-Directors**
  - Andras Javor, MISS Hungarian Center, Budapest University of Technology and Economics, Hungary
  - Louis G. Birta, MISS Ottawa Center, University of Ottawa, ON, Canada

- **Web Responsible**
  - Michael Chimni, US Army - RDECOM - ARDEC, USA

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WEB SITE

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- www.simulationsciences.org

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R&D Projects

Subject	Type	Description	Reference
Artificial Intelligence			
Artificial Intelligence			
Artificial Intelligence			
Artificial Intelligence			
Artificial Intelligence			
Artificial Intelligence			
Artificial Intelligence			
Artificial Intelligence			
Artificial Intelligence			

Research

JOINT PROPOSALS/PROJECTS
- SMESIM, 5 Countries, 8 Centers Coord.Hungary Center
- PIOVRA, 2 Countries, 2 Centers Coord.Genoa Center
- GLOWS, 5 Countries, 3 Centers, Coord. Genoa Center
- Erasmus CD, 5 Countries, 3 Centers Coord. Spain Center
- IGERT, 6 Countries, 2 Centers Int.Coord.Genoa Center
- LESMEC, 2 Countries, 2 Centers, Coord.Mexico Center
- G-PIETRE, 3 Counties, 2 Centers, Coord.Perugia Center
- USE-ME, 5 Countries, 3 Centers, Coord.Hamburg/Chico
- EC-Tempus, 5 Countries, 1 Center

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Indietro   Cerca   Preferiti   Multimedia

Indirizzo   http://www.simulationscience.org/education.html

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Education

M&S Courses

Courses

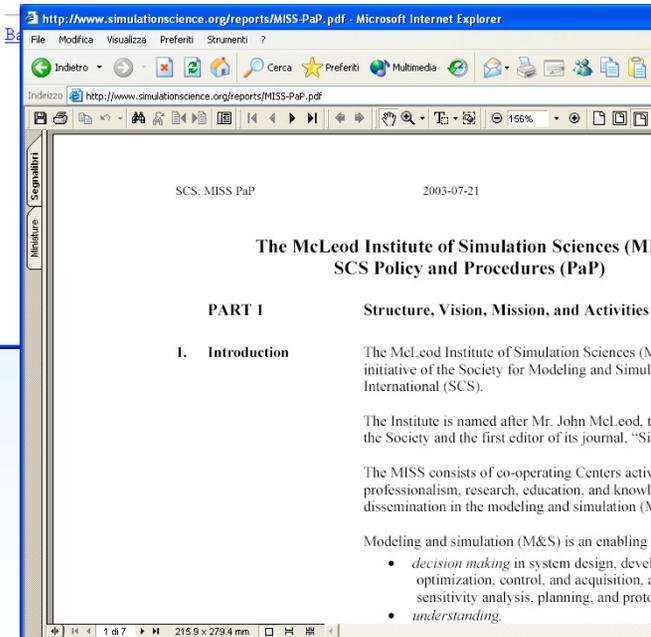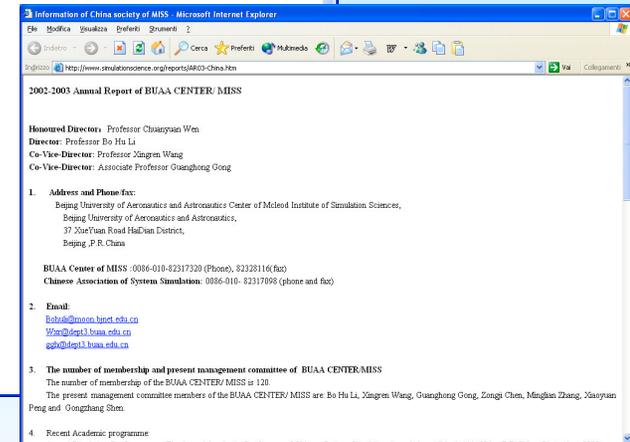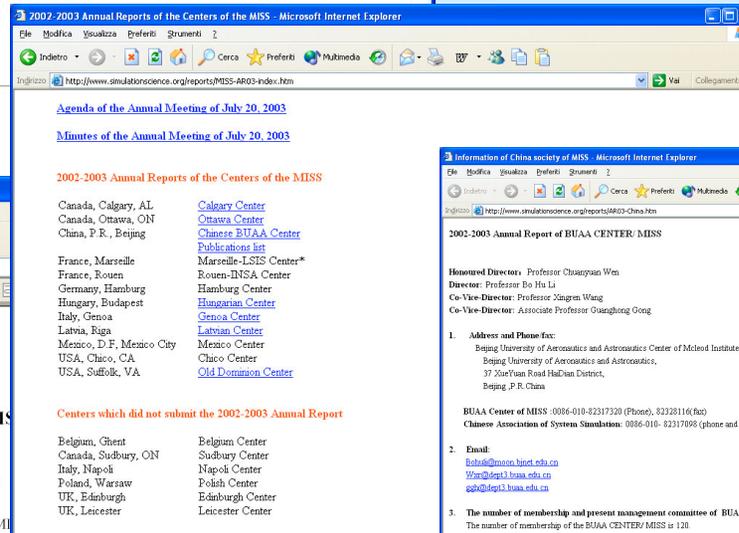| Title	Type	Reference
Advanced Simulation Technology	University Course	Chinese BUAA Center
Distributed Interacted Simulation	University Course	Chinese BUAA Center
Flight Real Time Simulation System and Technology	University Course	Chinese BUAA Center
Fundamentals of Computer Animation	University Course	Calgary Center
Games Programming	University Course	Calgary Center
High Level Architecture - SIREN	Professional Course	Genoa Center
Industrial Plants - Continuous Simulation	University Course	Genoa Center
Introduction to distributed systems	University Course	Calgary Center
Introduction to Modeling and Simulation	University Course	Latvian Center

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Reports & Documents

- **MISS Certificate for Thesis**
- **MISS Awards**

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Centers

Centers of the MISS (McLeod Institute of Simulation Sciences) - Microsoft Internet Explorer

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Indirizzo G:\www_2005\www_liophant_2003_7_31\miss_world\miss_centers.html Vai Collegamenti »

Centers of the MISS

MISS

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Center Reports

22 Centers and 5 Satellite Centers in over 15 Countries World-Wide

Full Active Centers

Country	City	Center's name Center's institutional home Center's Web address	Director Co-Director(s) E-mails
Brazil	Rio de Janeiro	**Rio de Janeiro Center** Universidad Federal of Rio de Janeiro, LAMCE, COPPE www.lamce.coppe.ufrj.br	Prof.Luiz Landau Gerson Cunha
Canada	Calgary, AL	**Calgary Center** University of Calgary warp.cpsc.ucalgary.ca	Prof Brian Unger, Ph.D. unger@icore.ca Prof. Ralph C. HuntsingerPh.D drralph@ecst.csuchico.edu
Canada	Ottawa, ON	**Ottawa Center** University of Ottawa & Carleton University http://www.site.uottawa.ca/~oren/SCS_OC-MISS/index.htm	Prof. Tuncer Ören, Ph.D. oren@site.uottawa.ca Prof. Gabriel Wainer, Ph.D. Gwainer@sce.carleton.ca Prof. Azzedine Boukerche, Ph.D.

Risorse del computer

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CENTERS & SATELLITES
MISS is active in many sites:

- *Ghent Univ, Belgium*
- *Rio de Janeiro, Brazil*
- *Calgary Univ., Canada*
- *Ottawa Univ.&Carleton Univ., Canada*
- *Beijing Univ. of Aerospace and Astronautics, China*
- *LSIS Marseille, France*
- *INSA Rouen, France*
- *TU Hamburg, Germany*
- *TU Wien, Austria*
- *Budapest Univ. Of Economics, Hungary*
- *Szechenyi Istvan University Gyor, Hungary*
- *DIPTEM Univ of Genoa, Italy*

- *Perugia, Italy*
- *Riga TU, Latvia*
- *UNAM Center, Mexico*
- *Bialystok Center , Poland*
- *Polish Academy of Science, Poland*
- *Radom TU, Poland*
- *TU Gdansk, Poland*
- *Barcelona, Spain*
- *University of Edinburgh, UK*
- *DeMontfort University, UK*
- *California State University, USA*
- *Old Dominion University, USA*
- *CNR Napoli, Italy*

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Other Centers

Centers of the MISS (McLeod Institute of Simulation Sciences) - Microsoft Internet Explorer

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Indirizzo: C:\zz\zz2006\scsc2006\www\miss_world\miss_centers.html

Country	City	Center's name / Center's institutional home / Center's Web address	Director / Co-Director(s) / E-mails
Belgium	Ghent	**Belgium Center** University of Ghent Applied Mathematics, Biometrics and Process Control Department biomath.ugent.be	Prof. Ghislain Vansteenkiste, Ph.D. Ghislain.Vansteenkiste@rug.ac.be
Canada	Sudbury, ON	**Sudbury Center** Laurentian University www.cs.laurentian.ca/oabourabia	Prof. Osman Abou Rabia, Ph.D. osman@ramsey.cs.laurentian.ca
		Vienna Satellite Center Technical University of Vienna info.tuwien.ac.at/histu/pers/10668.html	Prof. Felix Breitenecker fbreiten@email.tuwien.at Prof. Dietmar P.F. Moeller, Ph.D. dietmar.moeller@informatik.uni-hamburg.de
		Napoli Center Italian National Research Institute - Napoli www.ibb.cnr.it	Mario Savastano, MS, Research Engineer mario.savastano@tin.it
		Polish Center Polish Academy of Sciences www.ippt.gov.pl	Prof Roman Bogacz, Ph.D. rbogacz@ippt.gov.pl Prof Bobrowski Leon leon@ibib.waw.pl
		Radom Satellite Center Technical University of Radom www.pr.radom.pl	Prof Zygumunt Strzyzakowski zstrz@data.pl Zbigniew Seta, Ph.D.
		Gdansk Satellite Center	Jaroslaw Rybicki, Ph.D. ryba@task.gda.pl

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Full Active Centers

Country	City	Center's name / Center's institutional home / Center's Web address	Director / Co-Director(s) / E-mails
Brazil	Rio de Janeiro	**Rio de Janeiro Center** Universidad Federal of Rio de Janeiro, LAMCE, COPPE www.lamce.coppe.ufrj.br	Prof. Luiz Landau Gerson Cunha
Canada	Ottawa, ON	**Ottawa Center** University of Ottawa & Carleton University http://www.site.uottawa.ca/~oren/SCS_OC-MISS/index.htm	Prof. Tuncer Ören, Ph.D. oren@site.uottawa.ca Prof. Gabriel Wainer, Ph.D. Gwainer@sce.carleton.ca Prof. Azzedine Boukerche, Ph.D. boukerch@site.uottawa.ca
China, P.R.	Beijing	**Chinese BUAA Center** Beijing University of Aeronautics and Astronautics dept3.buaa.edu.cn	Honorary Director: Prof. Chuanyuan Wen cywen@cs.sebuaa.ac.cn Director: Prof. Bo Hu Li Bohuli@moon.bjnet.edu.cn Co-Vice-Director: Prof. Xinreng Wang Wxr@dept3.buaa.edu.cn Co-Vice-Director: Associate Prof. Guanghong Gong ggh@dept3.buaa.edu.cn
France	Marseille	**Marseille LSIS Center** Laboratoire des Sciences de L'Information et des Systemes www.lsis.org	Prof. Norbert Giambiasi, Ph.D. norbert.giambiasi@lsis.org Prof. Claudia Frydman, Ph.D. claudia.frydman@lsis.org
		Rouen INSA Center	Prof. Mhamed Itmi

Operazione completata   Risorse del computer

Classification of MISS Sites

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MISS Sites Situation & Reactivation

- **Ghent Univ, Belgium**
- *Rio de Janeiro, Brazil*
- *Calgary Univ., Canada*
- *Ottawa Univ.&Carleton Univ., Canada*
- *Beijing Univ. of Aerospace and Astronautics, China*
- *LSIS Marseille, France*
- *INSA Rouen, France*
- *TU Hamburg, Germany*
- *TU Wien, Austria*
- *Budapest Univ. Of Economics, Hungary*
- *Szechenyi Istvan University Gyor, Hungary*
- *DIPTEM Univ of Genoa, Italy*

- *Perugia, Italy*
- *Riga TU, Latvia*
- *UNAM Center, Mexico*
- *Bialystok Center , Poland*
- **Polish Academy of Science, Poland**
- **Radom TU, Poland**
- **TU Gdansk, Poland**
- *Barcelona, Spain*
- *University of Edinburgh, UK*
- *DeMontfort University, UK*
- *California State University, USA*
- *Old Dominion University, USA*
- **CNR Napoli, Italy**

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2006 Reports

- 2006 MISS International Report

  - BUUA, China (Publications)
  - Genoa Center, Italy (Projects)
  - Hungarian Center, Hungary
  - Latvian Center, Latvia
  - Marseille LSIS, France
  - Ottawa Center, Canada
  - Perugia Center, Italy
  - Rouen INSA Center, France
  - Rio de Janeiro Center, Brazil
  - Spain Center, Spain
  - De Montford Center, UK
  - UNAM Center, Mexico
  - Byalistock Center
  - CSU Chico Center
  - VMASC
  - Hamburg Center

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MISS Reporting
FULL MISS ACTIVE CENTERS

2001-2002 Annual Reports of the Centers of the MISS

Calgary Center	Calgary, AL, Canada
Chico Center	Chico, CA, USA
Chinese BUAA Center	Beijing, P.R. China
Genoa Center	Genoa, Italy
Hamburg Center	Hamburg, Germany
Hungarian Center	Budapest, Hungary
Latvian Center	Riga, Latvia
Mexico Center	Mexico City, Mexico, D.F
Old Dominion Center	Suffolk, VA, USA
Ottawa Center	Ottawa, ON, Canada
Rouen-INSA Center	Rouen, France

2002-2003 Annual Reports of the Centers of the MISS

Canada, Calgary, AL	Calgary Center
Canada, Ottawa, ON	Ottawa Center
China, P.R., Beijing	Chinese BUAA Center
	Publications list
France, Marseille	Marseille-LSIS Center*
France, Rouen	Rouen-INSA Center
Germany, Hamburg	Hamburg Center
Hungary, Budapest	Hungarian Center
Italy, Genoa	Genoa Center
Latvia, Riga	Latvian Center
Mexico, D.F, Mexico City	Mexico Center
USA, Chico, CA	Chico Center
USA, Suffolk, VA	Old Dominion Center

2005 MISS International Report
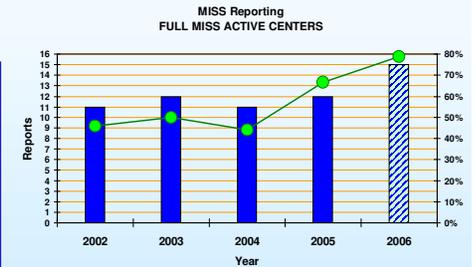
- Bialystok Center, Poland
- Calgary Center, Canada
- California State University Chico Center, USA
- De Montford Center, UK, (PPT)
- Genoa Center, Italy
  - Perugia Satellite Center, Italy
- Hungarian Center, Hungary
- Latvian Center, Latvia
- Marseille LSIS, France
- Old Dominion Center, VA
- Rouen INSA Center, France
- Rio de Janeiro Center, Brazil
- UNAM Center, Mexico

2004 MISS International Report

- Bialystok Center, Poland
- California State University Chico Center,
- Genoa Center, Italy
  - Perugia Satellite Center, Italy
- Hungarian Center, Hungary
  - Gyor Satellite Center, Hungary
- Latvian Center, Latvia
- Marseille LSIS, France
- Old Dominion Center, VA
- Ottawa Center, Canada
- Rouen INSA Center, France

2006 MISS International Report

- BUUA, China (Publications)
- Genoa Center, Italy (Projects)
- Hungarian Center, Hungary
- Latvian Center, Latvia
- Marseille LSIS, France
- Ottawa Center, Canada
- Perugia Center, Italy
- Rouen INSA Center, France
- Rio de Janeiro Center, Brazil
- Spain Center, Spain
- De Montford Center, UK
- UNAM Center, Mexico
- Byalistock Center
- CSU Chico Center
- VMASC
- Hamburg Center

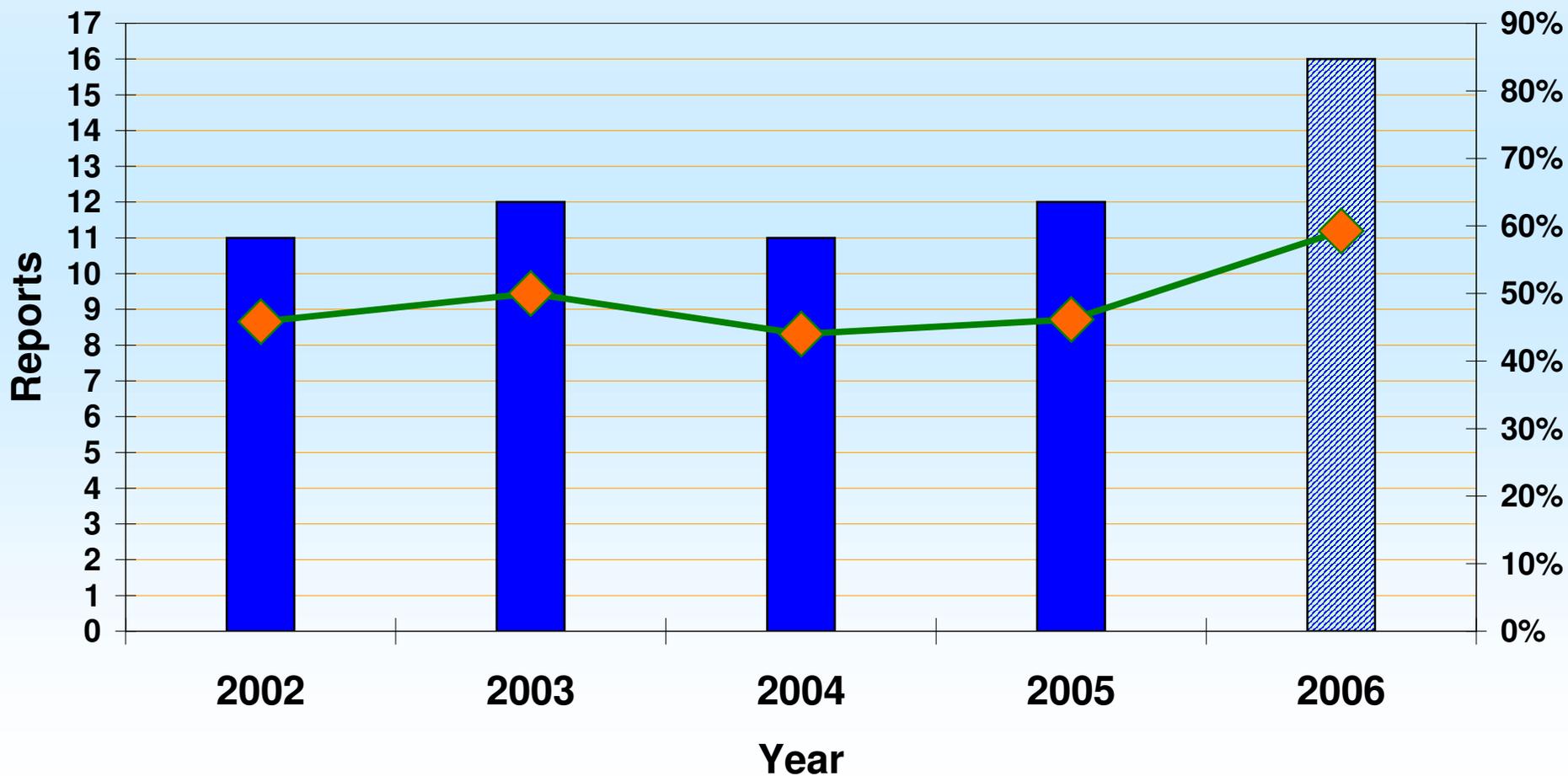- DIPTEM Univ of Genoa, Ital...

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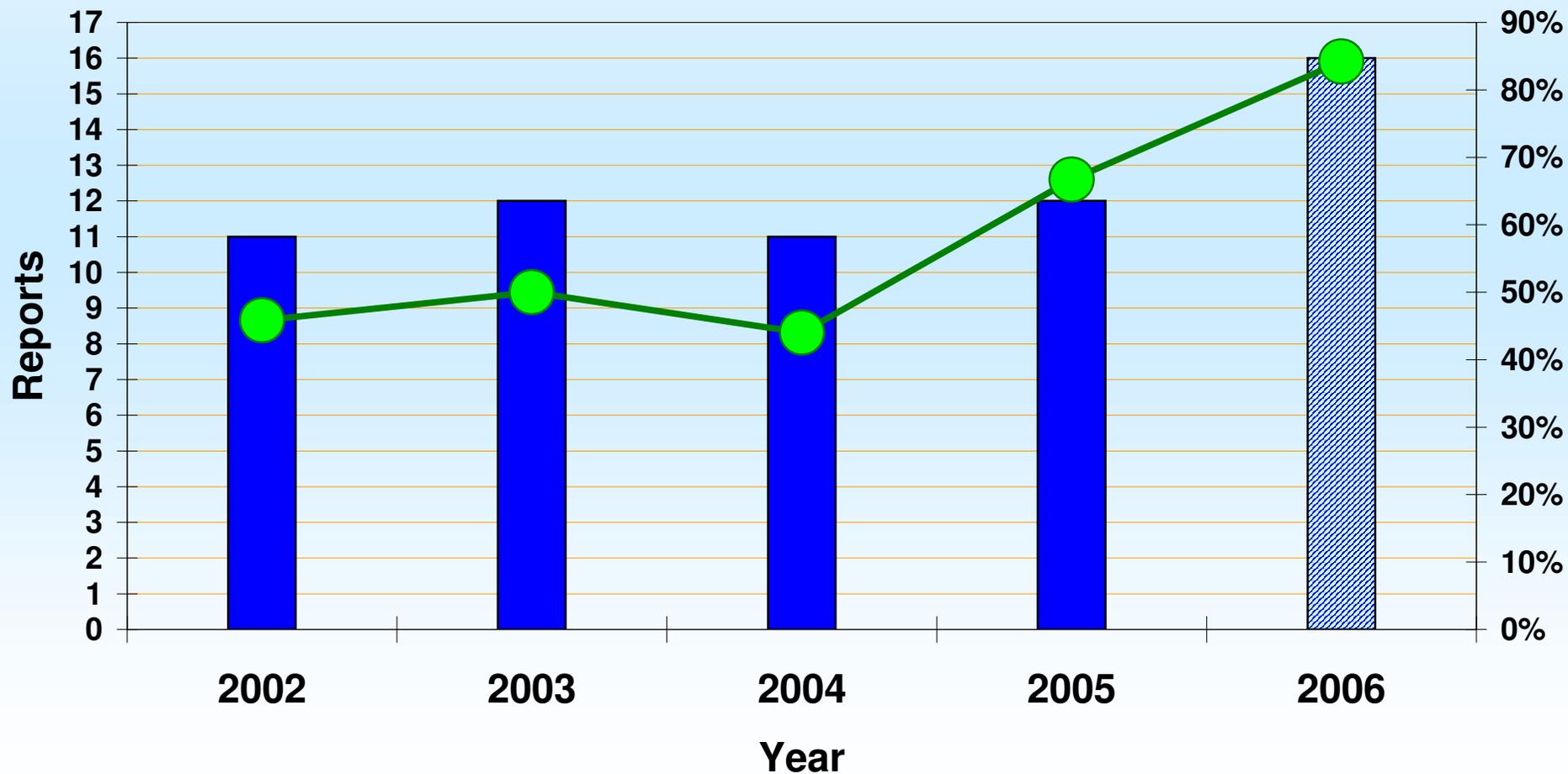
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Hyperlinks

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Links

Simulation Societies

- Liophant Simulation
- SCS - The Society for Modeling & Simulation International
- National Training Systems Association
- Simulation Interoperability Standards Organization
- SIGSIM - The ACM Special Interest Group on Simulation

- EUROSIM - the Federation of European Simulation Societies
- I_M_CS - International Mediterranean Computer Simulation Council
- MSSANZ - Modelling and Simulation Society of Australia and New Zealand
- SCS Europe - Society for Modeling & Simulation, European Council
- UKSIM -UK Simulation Interoperability Working Group

Technical Simulation Groups

- The Bond Graph Compendium
- SIMPLEST - SIMulation applications in Management, PLanning & forEcaSTing

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Conferences & Events

- Western MultiConference - WMC2004 - San Diego, CA USA - January 2004
- Advanced Simulation Technology Conference - ASTC2004 - Arlington, VA USA - April 18-22, 2004
- Simulation Interoperability Workshop - SIW2004 Spring - Arlington, VA USA - April 18-13 2004
- International Training Equipment Conference - ITEC2004 - London, UK - April 2004
- European Simulation MultiConference - ESM2004 - Magdeburg, Germany - June 13-16 2004
- Summer Computer Simulation Conference - SCSC2004 - San Jose`, CA USA - July 2004
- Symposium on Performance Evaluation of Computer and Telecommunication Systems - SPECTS2004 - San Jose`, CA USA - July 2004
- International Conference on Information Systems and Engineering - ISE2004 - San Jose`, CA USA - July 2004
- Harbour, Maritime & Multimodal Logistics Modelling and Simulation - HMS2004 - Rio de Janeiro, Brazil, September 16-18 2004
- Eurosim - Eurosim2004 - Noisy le Grand, France, September 16-18 2004
- Modeling & Applied Simulation - MAS2004 - Genoa, Italy - October 28-30 2004
- International Mediterranean Modelling MultiConference - I3M2004 - Genoa, Italy - October 28-30 2004

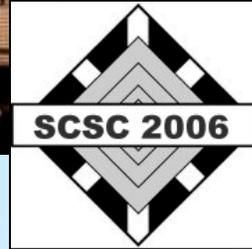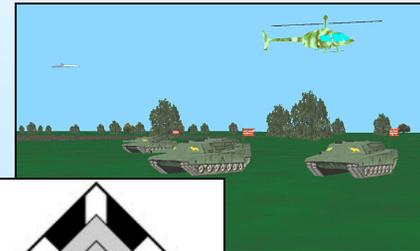# McLeod Institute of Simulation Science
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- Issues
  - **Upgrades to Full Center**
    - University of Perugia
  - **Classification & Reactivation of MISS Sites**
  - **New Center in MISS or M&S Net**
    - Napoli Center
  - **Networking & Crosslinks**
  - **Simulation References**
    - **Simulation Handbook**
    - **Simulation Dictionary**
    - **Simulation Syllabus**
  - **Center Activity Credits & Recognition**

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- **Networking & Crosslinks**
- **Simulation References**
  - **Simulation Handbook**
  - **Simulation Dictionary**
  - **Simulation Syllabus**

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Conference in Brazil Sponsored by Petrobras & Italian Foreign Commerce Office

GLOWS: the security of global flows of people an goods

- An International initiative for strengthening the security of flows of people and good while maintain a low cost and quick logistic systems
- Modeling infrastructures such as airports and ports in order to evaluate the impact of new security solutions and interrelations between ICT systems

Proposal For Research in Security & Supply Chain Resilience

Framework agreement with Rio de Janeiro University

New Courses in M&S in Perugia University

AGOSTINO BRUZZONE   GERSON G. CUNHA

Perugia Center Upgrade

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Napoli Group - Antonio Mascolo
Productility: Consulting Company
Villa Angiolina: Villa for Professional Courses in Accounting, Auditing, Quality, etc.

Invitation to submit an organized proposal for Joining M&S Net

and or

Invitation to consider to affiliate with an Academic Institution (Naples University)
in order to submit a successful proposal for Joining MISS