

# McLeod Institute of Simulation Science



McLeod Institute of Simulation Science

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[www.simulationscience.org](http://www.simulationscience.org)





# McLeod Institute of Simulation Science

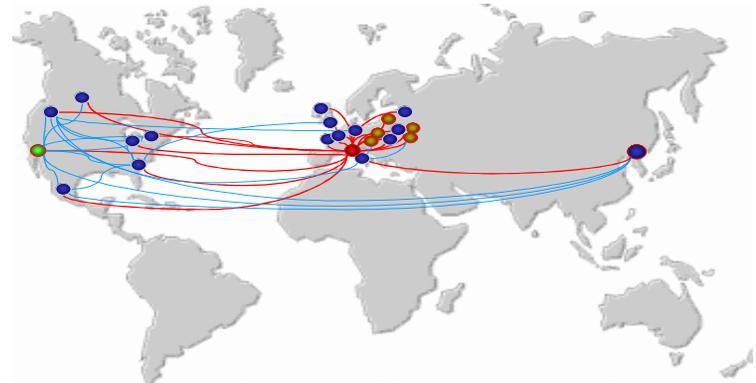
[www.simulationscience.org](http://www.simulationscience.org)

The Institute of Simulation Science is an International Network named after John McLeod, the founder of the Society for Computer 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, World Director of MISS*



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- **Director:**

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

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- **Andras Javor, MISS Hungarian Center, Budapest University of Technology and Economics, Hungary**

- **Founder**

- **Ralph Huntsinger, MISS Chico Center, California State University Chico, CA, USA**

- **Web Responsible**

- **Michael Chimni, TACOM - ARDEC US Army, USA**



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McLeod Institute of Simulation Sciences

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## WEB Initiative

- [www.simulationscience.org](http://www.simulationscience.org)
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**R&D Projects**

*Research*

Subject	Type	Description	Reference	Year
Artificial Intelligence	Project	Knowledge Management System Requirement Definition Study - U.S. Joint Forces Command, Joint Warfighting Experimentation Battle Laboratory	<a href="#">VMASC Center</a>	2003
Artificial Intelligence	Project	Intelligent Synthesis Environment - NASA, Langley Research Center	<a href="#">VMASC Center</a>	2003
Artificial Intelligence	Topic	AI - Cognition / Perception of Human Behavior	<a href="#">Chinese BUAA Center</a>	2003
Artificial Intelligence	Topic	AI - Motion simulation of human-beings	<a href="#">Chinese BUAA Center</a>	2003
Artificial Intelligence	Topic	AI - Personated intelligent control	<a href="#">Chinese BUAA Center</a>	2003
Artificial Intelligence	Topic	AI - Virtual humans	<a href="#">Chinese BUAA Center</a>	2003
Artificial Intelligence	Topic	AI in simulation based on intelligent demons and Knowledge Attributed Petri Nets (KAPN), CASSANDRA simulation system	<a href="#">Hungary Center</a>	2003
Artificial Intelligence	Topic	Artificial intelligent and simulation	<a href="#">Chinese BUAA Center</a>	2003
Artificial Intelligence	Topic	Simulation of human behavior	<a href="#">Ottawa Center</a>	2003



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McLeod Institute of Simulation Sciences - Education - Microsoft Internet Explorer

Indietro - Cerca - Preferiti - Multimedia - Vai - Collegamenti

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

## McLeod Institute of Simulation Sciences



### Education

# *Courses*

#### M&S Courses

Title	Type	Reference	Year
Advanced Simulation Technology	University Course	<a href="#">Chinese BUAA Center</a>	2003
Distributed Interacted Simulation	University Course	<a href="#">Chinese BUAA Center</a>	2003
Flight Real Time Simulation System and Technology	University Course	<a href="#">Chinese BUAA Center</a>	2003
Fundamentals of Computer Animation	University Course	<a href="#">Calgary Center</a>	2003
Games Programming	University Course	<a href="#">Calgary Center</a>	2003
High Level Architecture - SIREN	Professional Course	<a href="#">Genoa Center</a>	2003
Industrial Plants - Continuous Simulation	University Course	<a href="#">Genoa Center</a>	2003
Introduction to distributed systems	University Course	<a href="#">Calgary Center</a>	2003
Introduction to Modeling and Simulation	University Course	<a href="#">Latvian Center</a>	2003



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

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[http://www.simulationscience.org/miss\\_centers.html](http://www.simulationscience.org/miss_centers.html)

## Centers of the MISS

McLeod Institute of Simulation Sciences

[Center Reports](#)

18 Centers and 5 Satellite Centers in 13 Countries World-Wide

Country	City	Center's name Center's institutional home Center's Web address	Director Co-Director(s) E-mails
Belgium	Ghent	<b>Belgium Center</b> University of Ghent Applied Mathematics, Biometrics and Process Control Department <a href="http://biomath.ugent.be">biomath.ugent.be</a>	Prof. Ghislain Vansteenkiste, Ph.D. <a href="mailto:Ghislain.Vansteenkiste@rug.ac.be">Ghislain.Vansteenkiste@rug.ac.be</a>
Canada	Calgary, AL	<b>Calgary Center</b> University of Calgary <a href="http://warp.cpsc.ucalgary.ca">warp.cpsc.ucalgary.ca</a>	Prof Brian Unger, Ph.D. <a href="mailto:unger@icore.ca">unger@icore.ca</a> Prof. Ralph C. Huntsinger Ph.D. <a href="mailto:drralph@ecst.csuchico.edu">drralph@ecst.csuchico.edu</a>
Canada	Ottawa, ON	<b>Ottawa Center</b> University of Ottawa & Carleton University <a href="http://www.systems-science.uottawa.ca/miss/">www.systems-science.uottawa.ca/miss/</a>	Prof. Tuncer Ören, Ph.D. <a href="mailto:oren@site.uottawa.ca">oren@site.uottawa.ca</a> Prof. Gabriel Wainer, Ph.D. <a href="mailto:Gwainer@sce.carleton.ca">Gwainer@sce.carleton.ca</a> Prof. Jean-Michel Thizy, Ph.D. <a href="mailto:thizy@uottawa.ca">thizy@uottawa.ca</a>
Canada	Sudbury, ON	<b>Sudbury Center</b> Laurentian University <a href="http://www.cs.laurentian.ca/oabourabia">www.cs.laurentian.ca/oabourabia</a>	Prof. Osman Abou Rabia, Ph.D. <a href="mailto:osman@ramsey.cs.laurentian.ca">osman@ramsey.cs.laurentian.ca</a>
			Honorary Director:

Internet

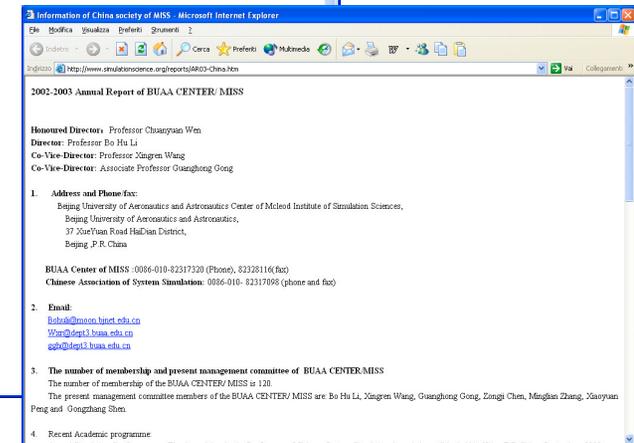
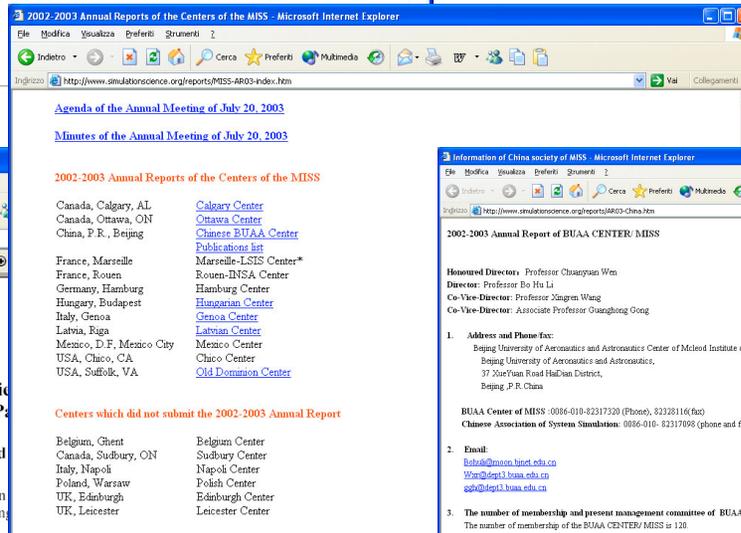
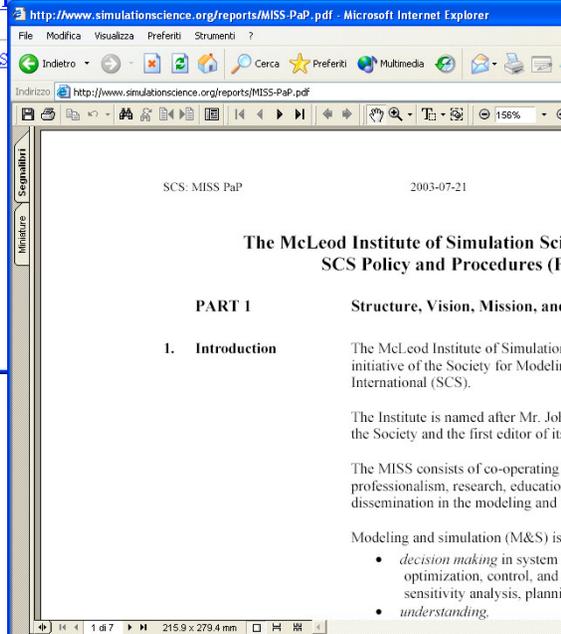
*Centers*



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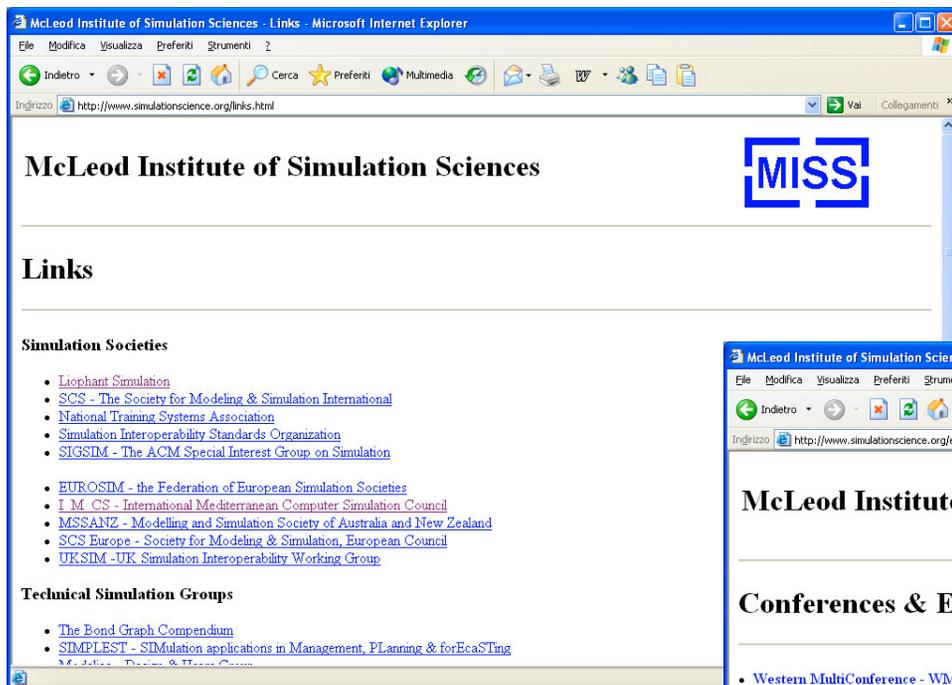
## Reports & Documents



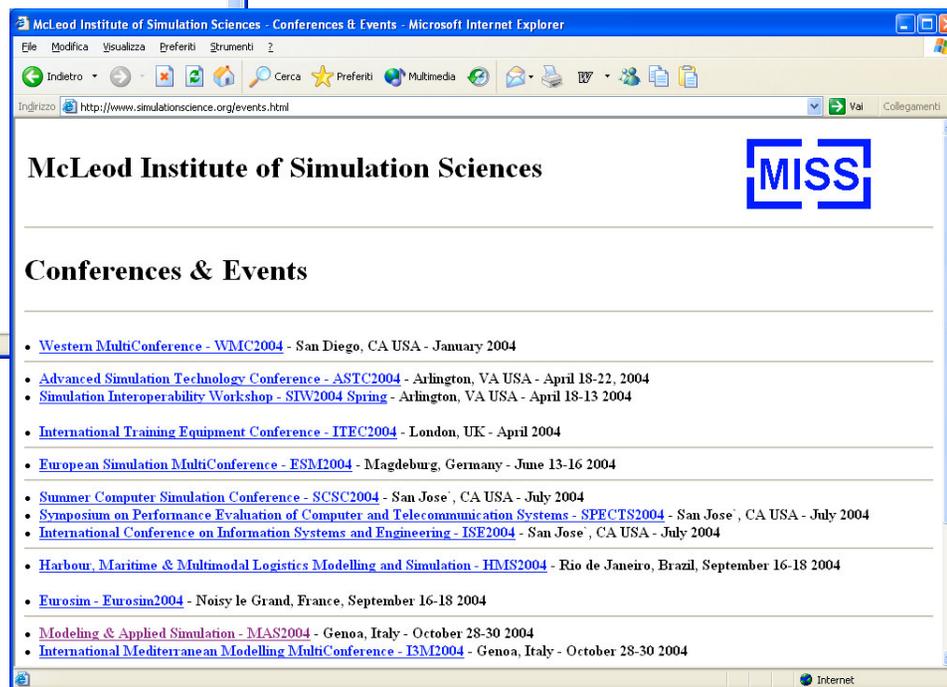


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*Hyperlinks*





# McLeod Institute of Simulation Science

[www.simulationscience.org](http://www.simulationscience.org)

- **Open Issues**
  - **New MISS Sites**
    - Brazil (Rio de Janeiro) & Spain (Barcelona)
  - **Reactivation of MISS Sites**
    - **Sleeping Centers**
  - **Networking**
    - M&S Net
  - **Simulation Certification**
    - PhD, Masters
    - Professional
  - **Simulation References**
    - Simulation Handbook & Simulation Syllabus
  - **Center Activity Credits & Recognition**



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## CENTERS & SATELLITES

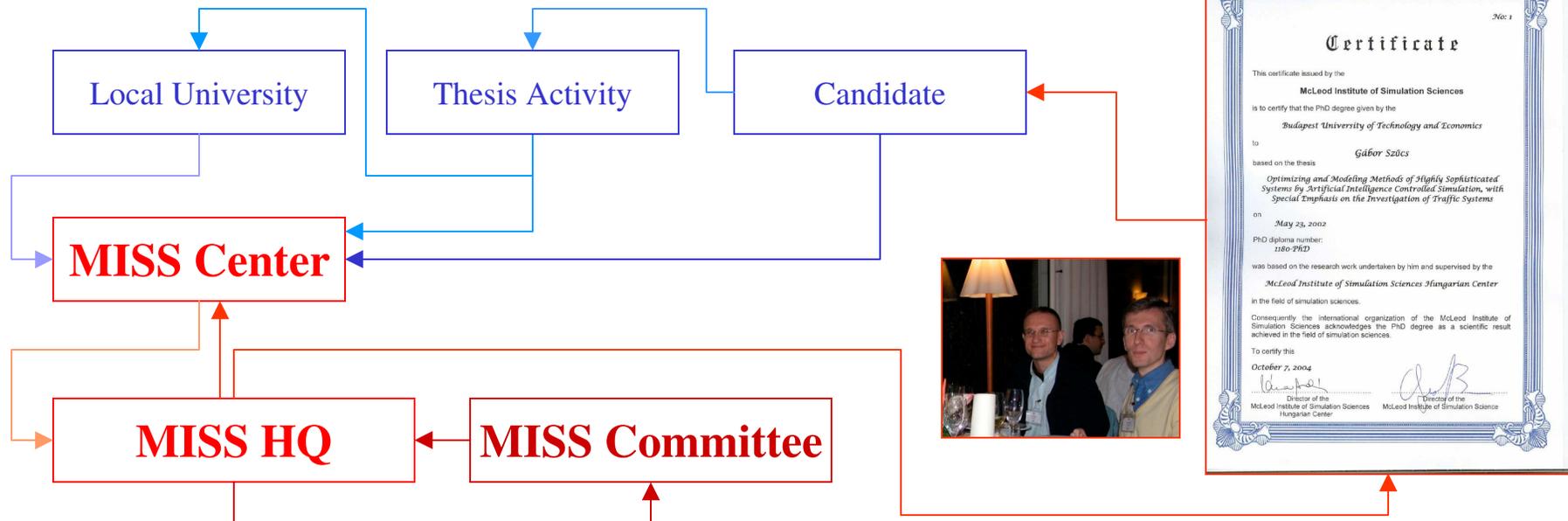
MISS is active in many sites:

- *Ghent Univ, Belgium*
- *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*
- *DIP Genoa Univ., Italy*
- *CNR Napoli, Italy*
- *Riga TU, Latvia*
- *Polish Academy of Science, Poland*
- *Radom TU, Poland*
- *TU Gdansk, Poland*
- *University of Edinburgh, UK*
- *DeMontfort University, UK*
- *California State University, USA*
- *Old Dominion University, USA*
- *Perugia Center, Italy*
- *UNAM Center, Mexico, Italy*
- *Bialystok Center , Poland*
- *NEWS*
- *Spain Center, Spain*
- *Rio Center, Brazil*



# MISS Academic Certification

MISS activated a detailed procedure for Certify completing Academic Educational Program (PhD, MS, BS); currently this procedure involves MISS Centres as local reference point to prepare the documentation required for the Certification.



# MISS Professional Certification



MISS established a procedure for Certify people attending to MISS Professional Courses; currently this procedure involves MISS courses and it is based on an operative protocol to appoint Certifications to course attendees.

