

McLeod Institute of Simulation Science



McLeod Institute of Simulation Science

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www.simulationscience.org





McLeod Institute of Simulation Science

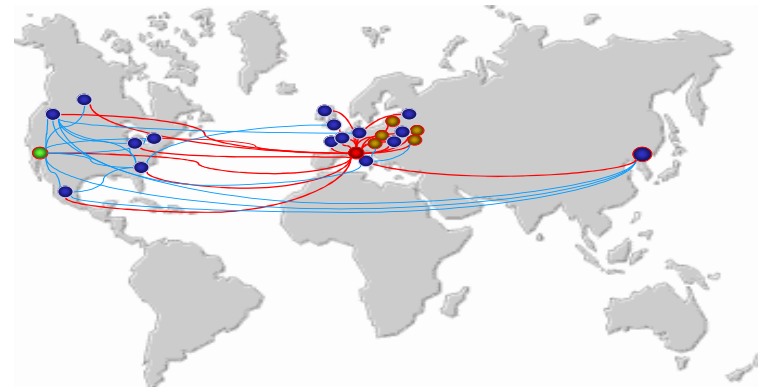
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The Institute of Simulation Science is an International Network named after John McLeod, the founder of the Society for Computer Simulation International and the first editor of its journal, "Simulation"

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

- **Co-Vice-Directors**

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

- **Founder**

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

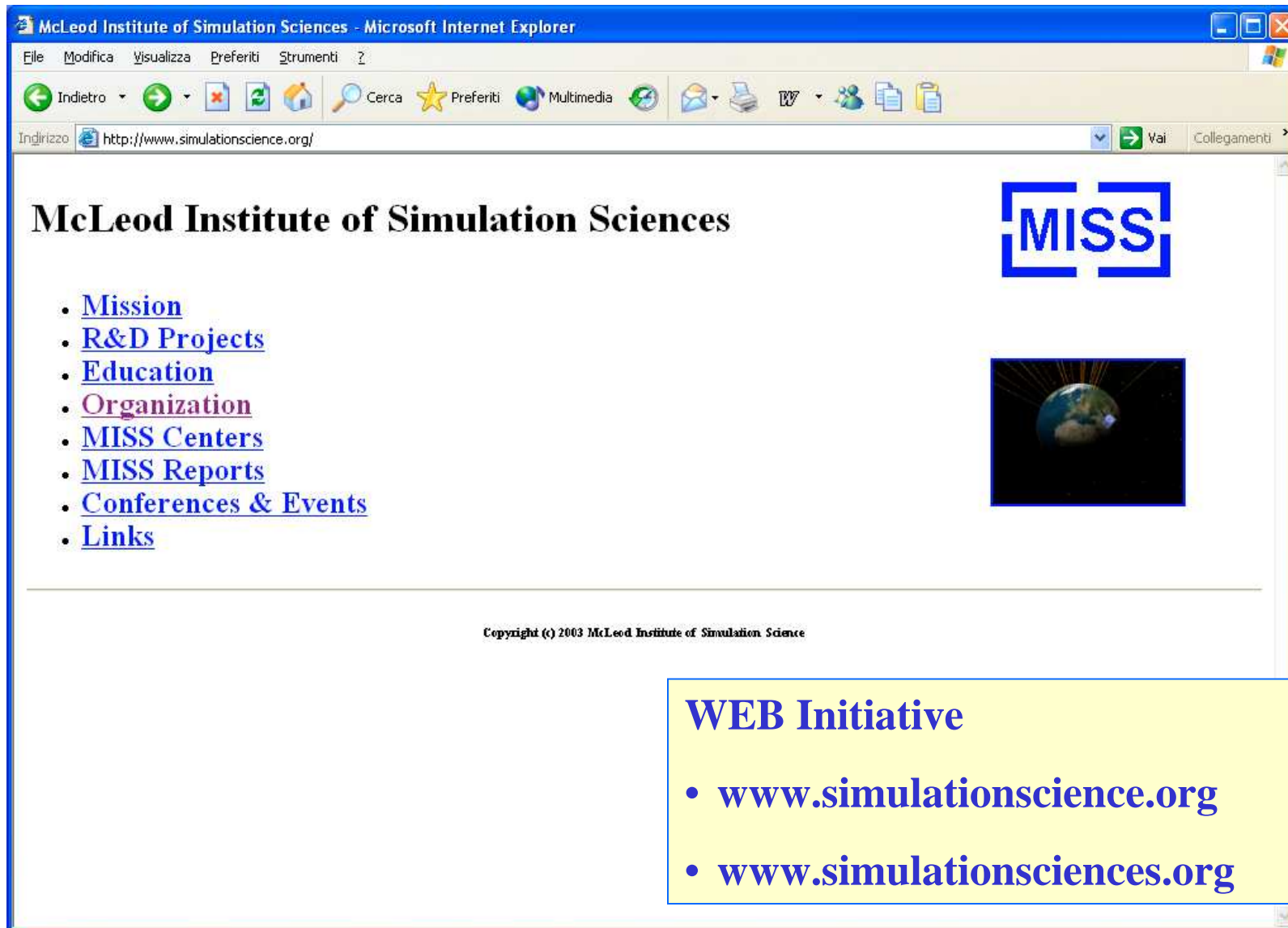
- **Web Responsible**

- Michael Chimni, TACOM - ARDEC US Army, USA



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WEB Initiative

- www.simulationscience.org
- www.simulationsciences.org



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McLeod Institute of Simulation Sciences - R&D Projects - Microsoft Internet Explorer

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

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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	VMASC Center	2003
Artificial Intelligence	Project	Intelligent Synthesis Environment - NASA, Langley Research Center	VMASC Center	2003
Artificial Intelligence	Topic	AI - Cognition / Perception of Human Behavior	Chinese BUAA Center	2003
Artificial Intelligence	Topic	AI - Motion simulation of human-beings	Chinese BUAA Center	2003
Artificial Intelligence	Topic	AI - Personated intelligent control	Chinese BUAA Center	2003
Artificial Intelligence	Topic	AI - Virtual humans	Chinese BUAA Center	2003
Artificial Intelligence	Topic	AI in simulation based on intelligent demons and Knowledge Attributed Petri Nets (KAPN), CASSANDRA simulation system	Hungary Center	2003
Artificial Intelligence	Topic	Artificial intelligent and simulation	Chinese BUAA Center	2003
Artificial Intelligence	Topic	Simulation of human behavior	Ottawa Center	2003



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McLeod Institute of Simulation Sciences - Education - Microsoft Internet Explorer

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

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Education

Courses

M&S Courses

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

Centers of the MISS

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[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	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	Calgary, AL	Calgary Center University of Calgary warp.cpsc.ucalgary.ca	Prof Brian Unger, Ph.D. unger@icore.ca Prof. Ralph C. Huntsinger Ph.D. dralph@ecst.csuchico.edu
Canada	Ottawa, ON	Ottawa Center University of Ottawa & Carleton University www.systems-science.uottawa.ca/miss/	Prof. Tuncer Ören, Ph.D. oren@site.uottawa.ca Prof. Gabriel Wainer, Ph.D. Gwainer@sce.carleton.ca Prof. Jean-Michel Thizy, Ph.D. thizy@uottawa.ca
Canada	Sudbury, ON	Sudbury Center Laurentian University www.cs.laurentian.ca/oabourabia	Prof. Osman Abou Rabia, Ph.D. osman@ramsey.cs.laurentian.ca
			Honorary Director:

Internet

Centers



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CENTERS & SATELLITES

MISS is active in many sites:

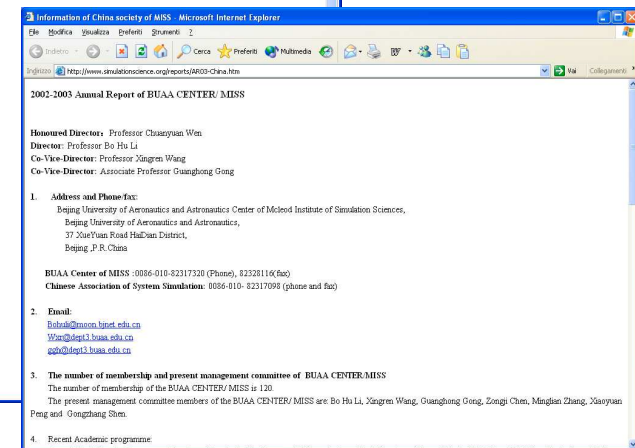
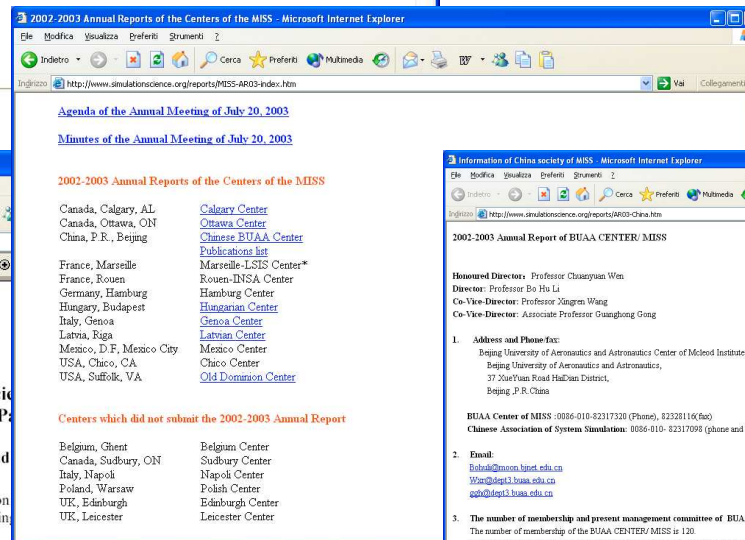
- *Ghent Univ, Belgium*
- *Calgary Univ., Canada*
- *Ottawa Univ.&Carleton Univ., Canada*
- *Beijing Univ. of Aerospace and Astronautics, China*
- *LSIS Marseille, France*
- *INSA Rouen, France*
- *TU Hamburg, Germany*
- *TU Wien, Austria*
- *Budapest Univ. Of Economics, Hungary*
- *Szechenyi Istvan University Gyor, Hungary*
- *DIP Genoa Univ., Italy*
- *CNR Napoli, Italy*
- *Riga TU, Latvia*
- *Universidad Panamericana, Mexico*
- *Polish Academy of Science, Poland*
- *Bialystok Satellite Center , Poland*
- *Radom TU, Poland*
- *TU Gdansk, Poland*
- *University of Edinburgh, UK*
- *DeMontfort University, UK*
- *California State University, USA*
- *Old Dominion University, USA*



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Reports & Documents

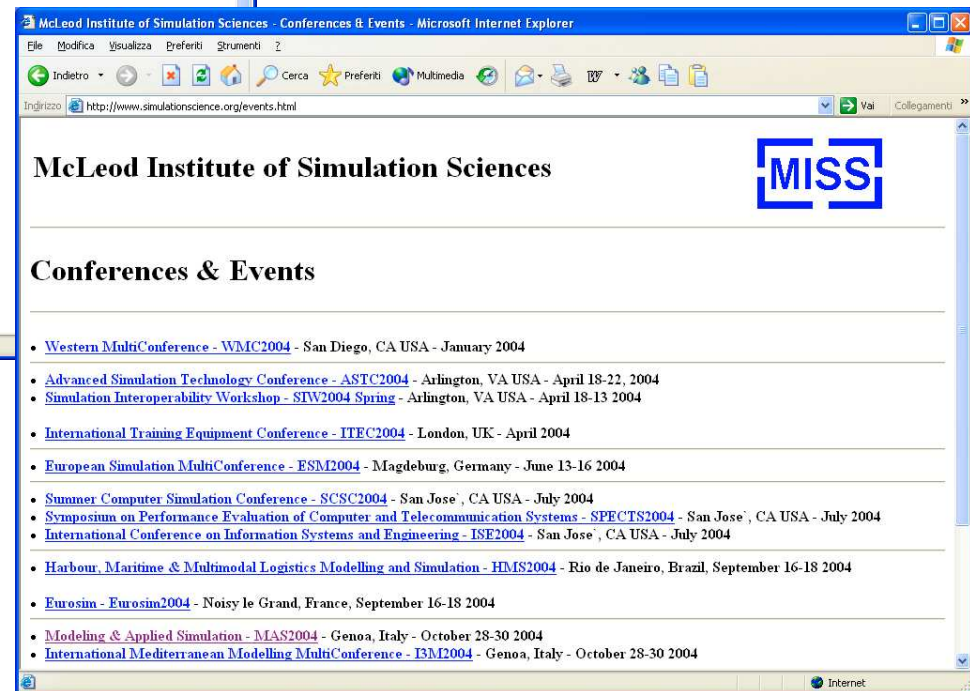
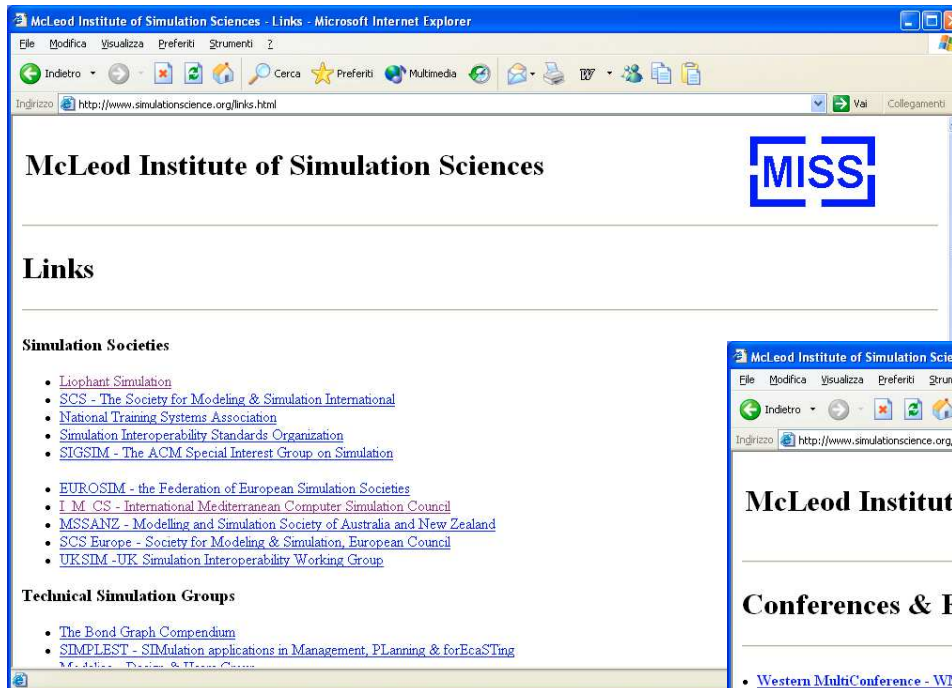




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Hyperlinks





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- **Open Issues**
 - **New MISS Sites**
 - **Proposal (Universidad National Autonoma de Mexico)**
- **Reactivation of MISS Sites**
- **Networking**
 - **M&S Net**
 - **Sim-Serv**
- **Simulation References**
 - **Simulation Handbook**
 - **Simulation Syllabus**
- **Center Activity Credits & Recognition**

M&SNet Initiative

www.site.uottawa.ca/~oren/SCS_MSNet/MSNet-index.htm



The M&SNet is a consortium of co-operating independent organizations active in professionalism, research, education, and knowledge dissemination in the modeling and simulation (M&S) domain established in 2003. The M&SNet aims to provide an organizational structure that will serve to integrate and enrich, within its organizations, modeling and simulation activities throughout the world. The M&SNet provides a framework within which organizations interested in M&S can interact, share expertise, and work on problems of common interest.

The mission of the M&SNet is to foster:

- Professionalism in modeling and simulation,
 - Advancing the art and science of M&S,
 - Applying M&S in all domains where it is applicable, and
 - Disseminating M&S-related knowledge.
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- MISS (McLeod Institute of Simulation Science)
 - ACIMS (Arizona Center for Integrative Modeling and Simulation)
 - MISS-DIP Genoa
 - MISS Ottawa Center
 - AMSL (The Auburn Modeling and Simulation Laboratory)
 - LSIS Center
 - KAIST (Korea Advanced Institute of Science and Technology)
 - IST - Institute for Simulation & Training - UCF
 - SENDLAB - Secure Network Systems Design Lab
 - BioSystems Group (UCSF - University of California San Francisco)