

CURRICULUM VITAE

PERSONAL INFORMATION

Full Name: Shengping LUO
Place of Birth: Xiaogan, Hubei Province, P. R. China
Nationality: Chinese
Position: Associate Researcher
Department of Environmental Control and Life Support Systems (ECLSS)
Institute of Space Medico-Engineering (ISME),
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EDUCATION

Sept. 1999 ~ Oct. 2003

Ph. D student, Equipe Calcul Haute Performance en Mécanique (CHPM),
Laboratoire de Modélisation et Simulation Numérique en Mécanique
(L3M, <http://www.L3M.univ-mrs.fr>), Technopôle de Château-Gombert,
13451 Marseille Cedex 20, France

Ph. D Thesis: Numerical Study of Three Dimensional Turbulent Flows in a Habitat with Coupled Heat and Mass Transfer (in English & in French)

Sept. 1995 ~ Jun. 1996

Intensive French Training, Language Training Center, **Guangdong University of Foreign Studies** (<http://www.gdufs.edu.cn/>), Guangzhou, China

Aug. 1988 ~ Jul. 1991

Graduate student, Department of Environmental Control and Life Support Systems (ECLSS), **Institute of Space Medico-Engineering (ISME)**, Beijing, China

M. Sc Thesis: Study on Superoxide (KO₂/NaO₂) Oxygen Supply System for ECLSS Applications (in Chinese)

Sept. 1981 ~ Jul. 1985

Department of Power Engineering, **Harbin Institute of Technology (HIT)**, <http://www.hit.edu.cn>, Harbin, China

Specialized in: Hydraulic Technology (Fluid Power Transmission and Control)

DIPLOMAS

Ph. D (Doctorat de 3ème Cycle) in Fluid Mechanics, **Université de la Méditerranée – Aix-Marseille II**, Marseille, France, 31st Oct. 2003

M. Sc (Engineering), **Institute of Space Medico-Engineering (ISME)**, Beijing, China, 27th Jul. 1991

B. Sc (Engineering), **Harbin Institute of Technology (HIT)**, Harbin, China, 23rd Jul. 1985

EXPERIENCES

Nov. 2003 ~ Present

Postdoctoral fellow, Equipe Calcul Haute Performance en Mécanique (CHPM), **Laboratoire de modélisation et simulation Numérique en Mécanique et Génie des Procédés (L3M-GP)**, <http://www.L3M.univ-mrs.fr>, Technopôle de Château-Gombert, 13451 Marseille Cedex 20, France

Oct. 1997 ~ Oct. 1998

Visiting Scholar, Equipe Calcul Haute Performance en Mécanique (CHPM), **Institut de Recherche sur les Phénomènes Hors Equilibre (IRPHE)**, <http://www.irphe.univ-mrs.fr>, Technopôle de Château-Gombert, 13451 Marseille Cedex 20, France

Dec. 1995 ~ Aug. 1997

Associate Researcher, Chief of ECLSS Overall System Design Group (since May 1993), coordinating the ECLSS Overall System Design in the **Department of ECLSS, ISME**, Beijing, China

Aug. 1991 ~ Aug. 1995

Assistant Researcher in the **Department of ECLSS, ISME**

In charge of:

- (1) 3D modelization of ECLSS using CAD code EUCLID (from Matra Datavision, France);
- (2) ECLSS Overall System Design.

Participating in:

- (1) Superoxide Oxygen Supply Technology Study and System Design;
- (2) Carbon Dioxide Separation and Reduction Technology Study and System Design;
- (3) Cabin Trace Contaminant Control Technology Study and System Design.

Aug. 1985 ~ Jul. 1988

Engineer, State-owned **Wanshan Special Vehicle Factory**, participating in Product and Non-Standard Testing Bed Design.

CAPACITY

CFD Codes: Fluent(5+ years), Phoenix, Star-CD; **CAD Codes:** Autocad, Pro-E; **Unix/Linux/Windows Platforms;** C/Fortran Programming; MS-Offices; Web Design, etc.

LANGUAGES

English, French, Chinese (mother tongue)

AWARDS

Third class award for scientific and technological progress by COSTIND*, 1992
“Study on Superoxide (KO₂/NaO₂) Oxygen Supply Technology and System Design for Space Application”

Overseas Study Grant for one year from Chinese Ministry of Education, 1997

Second class award for scientific and technological progress by COSTIND, 1998
“Study on CO₂ Separation and Reduction Technology for Space Application”

First class award for scientific and technological progress by COSTIND, 1998
“Overall System Design of Environmental Control and Life Support Systems (ECLSS) for Chinese Manned Spaceship ‘Shenzhou’ ”

Ph. D Study Grant in co-supervising (co-tutelle en alternance) from French Embassy in Beijing, P. R. China, 1999

PUBLICATIONS

Luo, S. P., Sun, J. B., Wang, P. X., Wei, Y. J. A Study on the Characteristics of the KO₂/NaO₂-H₂O-CO₂ Reaction System, in: *Proceedings of 5th International Space Conference of the Pacific-Basin Societies (5th ISCOPS)*, Jun. 7-9, 1993, Shanghai, China

Luo, S. P., Sun, J. B., Wang, P. X., Wei, Y. J. A Study on the Characteristics of the KO₂/NaO₂-H₂O-CO₂ Reaction System, *Journal of Space Medicine and Medical Engineering*, Vol. 7, suppl., Jun. 1994

Luo S. Numerical Study of Three Dimensional Turbulent Flows in a Habitat with Coupled Heat and Mass Transfer, Ph. D Thesis (*Thèse de doctorat de l'Université de la Méditerranée – Aix-Marseille II*, in Fluid Mechanics), 240 p.; 31st Oct. 2003

Luo, S., Roux, B. Modeling of the HESCO nozzle diffuser used in IEA Annex 20 experiment test room, *Building and Environment* 39 (4): 367-384, 2004

Luo, S., Heikkinen, J., Roux, B. Simulation of air flow in the IEA Annex 20 Test Room – Validation of a simplified model for the nozzle diffuser in isothermal test cases, *Building and Environment* 39 (12): 1403-1415, 2004

Luo, S., Roux, B. Ecoulements turbulents 3D et couplage avec transfert de chaleur et de masse, au sol et dans un environnement spatial, *Congrès SFT 2004*, Presqu'île de Giens, 25- 28 May 2004.

*COSTIND: Commission of Science Technology and Industry for National Defense
<http://www.costind.gov.cn/>