



# CHINA AGRICULTURAL UNIVERSITY

## Engineering College

PO Box 50  
17 Qinghua East Rd.  
Beijing 100083, P.R. China

Phone: +86-10-62336545  
Fax: +86-10-82908226  
Email: [xdliu@cau.edu.cn](mailto:xdliu@cau.edu.cn)

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### CURRICULUM VITAE

#### PERSONAL

Name: LIU, Xiang-Dong  
Citizenship: Chinese  
Data and Place of Birth: March 5, 1953, Jilin, China  
Married Status: Married, one daughter  
Languages: Chinese (mother tongue)  
English (fluent) and Polish (simple conversation)

#### CURRENT ADDRESS

Dr. Liu Xiang-Dong  
P.O. Box 50  
Department of Agricultural Engineering  
Engineering College  
China Agricultural University  
17 Qinhua East Road  
Beijing, 100083, P.R. China

Phone Number: +86-10-62736545  
+86-10-82908226

E-mail: [xdliu@cau.edu.cn](mailto:xdliu@cau.edu.cn)

#### EDUCATION

8/1978 B.Eng. in Processing Machinery, Tianjin Institute of Light Industry, CHINA  
10/92 – 1/96 Ph. D in Chemical Engineering, Technical University of Lodz, POLAND

#### EMPLOYMENT

1978 – 1986 Assistant, Dept. of Mechanical Eng. Tianjin Institute of Light Industry (TILI)  
1986 - 1992 Lecturer, Dept. of Mechanical Eng., TILI.  
1992 - 1997 Ph.D. study, Faculty of Process and Environmental Engineering, Technical University of Lodz, POLAND  
1997 – 2001 Associate Professor, Engineering College, China Agricultural University  
2001 – Present Professor, Engineering College, China Agricultural University

#### RESEARCH TRAINING

9/1985 – 9/1986 Dept. of Mechanical Engineering, Brunel University, London, U. K.



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### TEACHING EXPERIENCE

- Advanced Drying Technology* for postgraduate students (Ph.D.)
- Momentum, Heat and Mass Transfer* for postgraduate students (M.Sc)
- Theory and Application of Vibrating Machinery* for postgraduate students (M.Sc.)
- Machinery in Processing Engineering* for undergraduate students (B.Sc.)
- Solid-Liquid Separation* for undergraduate students (B.Sc.)
- Refrigeration and Air Conditioning* for undergraduate students (B.Sc.)
- Reliability Engineering* for undergraduate students (B. Sc.)

### RESEARCH INTERESTS

1. Drying Theory and Practice
2. Modeling of Degradation Process for Biomass Quality or Food Nutrients during Thermal Drying
3. Drying of Biological Materials, Agricultural Products, and Foods

### RESEARCH PROJECTS

1. Quality Degradation Kinetics of Agricultural Products and Food during Drying Process (Sponsored by the State Education Ministry of the People's Republic of China)
2. Heat and Mass Transfer Characteristic during Pulse Combustion Drying of Wet Materials (Funded by the National Natural Science Foundation of China)
3. Drying Mechanisms of Corn Heated by Combined Infrared and Convection way (Funded by the Ministry of Agriculture of the People's Republic of China)

### CURRENT RESEARCH

1. *Heat and Mass Transfer in Pulse Combustion Drying Process*, Sponsored by The National Natural Science Foundation of China in the year 1997.
2. *Quality Retention of Biomaterials During Thermal Drying*, Sponsored by China Scholarship Council in the year 1998.

### MEMBERSHIP AND PROFESSIONAL SERVICE

1. Deputy Director of Drying Group of Chemical Engineering Specialty Committee of the Institute of Chemical Engineering, China (ICEC), (1999- Present)
2. Editorial Board Member, *Drying Technology*--- an International Journal, (2001- Present)
3. Committeeman of Scientific Committee of 14th International Drying Symposium, (2002-2004)
4. Committeeman of Advisory Committee of American Biographical Institute, (2002 – Present)



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### BOOK (authored/co-authored)

*Machinery in Chemical and Process Engineering*, Press of Light Industry, Beijing, 1993 (in Chinese)

*Mosern Drying Technology*, Chemical Industry Press, Beijing, 1997 (in Chinese)

*Principle, Equipment and Development of Drying*, Jinan Publishing Company, 2002 (in Chinese)

*Applications of Industrial Drying Equipment*, Chemical Industry Press, Beijing, 2005 (in Chinese)

### LIST OF PUBLICATIONS

1. Y. K. Pan, Y. M. Gan, X. D. Liu, Z. Wei, and A.S. Mujumdar, *Drying of Sticky Granular Materials During the Constant Rate Period in a Vibrofluidized Bed*, *Drying Technology: An International Journal*, Vol. 9, No. 4, 1991
2. C. Z. Chuai, S. Li, X.D. Liu and G. Y. Xun, *Application of a New Plastics Filter in Filled HDPE Compounds*, The PPS-Regional Conference of Asia/Australia, Oct. 15-18, 1991, Shanghai, China
3. I. Zbicinki, C. Strumillo and X.D. Liu, *Effect of Porous Carriers on Quality of Thermosensitive Products During Vibrofluidized Bed Drying*, The Conference of Drying Working Party, 1993 (DWP'93). Utrecht, The Netherlands. April. 1993
4. I. Zbicinki, C. Strumillo and X. D. Liu, *Vibrofluidized Bed Drying of Biosynthesis Products with Porous Carriers*, Second International Scientific Conference: Advances in Research and Teaching of Process and Environmental Engineering. Lodz-Konopnica, POLAND. June 29- July 2, 1993
5. C. Strumillo, I. Zbicinki and X.D. Liu, *Drying of Thermosensitive Materials in Vibrofluidized Bed Dryer*, Proc. of 8-th Polish Drying Symposium: with International Participation, (VIII Sympozjum Suszarnictwa), Vol 2, pp. 306~314, 1994
6. C. Strumillo, I. Zbicinki and X.D. Liu, *Thermal Drying of Biomaterials with Porous Carriers*, *Drying Technology: An International Journal*, Vol. 13, No. 5-7, pp. 1447 - 1462, 1995
7. C. Strumillo, I. Zbicinki and X.D. Liu, *Determination of the Kinetic Parameters for Modelling Quality Retention of Baker's Yeast During Thermal Drying*, Proc. of 15-th Chemical and Processing Engineering Conference (Gdansk'95), Vol. 2, pp. 272~284, 1995
8. C. Strumillo, I. Zbicinki and X.D. Liu, *Effect of Particle Structure on Quality Retention of Biomaterials During Thermal Drying*, *Drying Technology: An International Journal*, Vol 14, No. 9, pp.1921~1946, 1995
9. X.D. Liu, *Modeling of Thermalabile Material Drying with Carriers*, Ph.D. Thesis, Technical University of Lodz, Poland, 1996
10. X.D. Liu, C. Strumillo and I. Zbicinki, *Protection of Thermo- and Xero-Labile Materials During Thermal Drying*, Proc. of 10-th International Drying Symposium (IDS'96), Vol.B, pp. 1237~1244, 1996



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11. C. Strumillo, I. Zbicinki and X. D. Liu, *Application of Pulse Combustors to Dewatering of Industry Wastes*, First International Conference on Role of Engineering Towards Better Enviroments (RETBES'96). Alexandra, EGYPT, December 15~18, 1996
12. X.D. Liu, C. W. Cao, B. G. Li, I. Zbicinki and C. Strumillo, *Pulse Combustion Drying*, Proc. of 11-th International Drying Symposium (IDS'98), Vol. A, pp. 496~503, 1998
13. X.D. Liu, C. W. Cao, I. Zbicinki and C. Strumillo, *Determination of Effective Moisture Diffusivity of Biomaterials*, Proc. of 11-th International Drying Symposium (IDS'98), Vol.A, pp. 732~738, 1998
14. X.D. Liu, *Deteriorative Kinetics of Baker's Yeast during Thermal Drying*, *Drying Technology: An International Journal*, 17(6), 1999
15. X.D. Liu, D. Y. Yang, *Effect of bio-material structure on quality retention during thermal drying*, *Transaction of the Chinese Society of Agricultural Machinery*, Vol. 30, No. 6, 1999
16. X. D. Liu, C. W. Cao, Z. H. Lang, *Heat transfer between materials and unsteady flow from a Helmholtz type combustor*, IDS'2000, The Netherlands, 2000
17. C. W. Cao and X.D. Liu, *Experimental study on impinging stream drying of particulate materials*, IDS'2000, The Netherlands, 2000
18. X.D. Liu, *Deteriorative Kinetics of Baker's Yeast during Thermal Drying*, *Drying Technology: An International Journal*, 17(6): 1813-1826, 1999
19. B.G.Li, C.W.Cao, X.D.Liu, *Experimental Study on Drying Materials inside the Tailpipe of a Pulse Combustor*, IDS'2000, The Netherlands, 2000
20. C.W. Cao, D.Y. Yang, X.D. Liu, *Study on Concurrent Flow Dryer for Drying Rice*, IDS'2000, The Netherlands, 2000
21. X.D. Liu, C.W. Cao, Z.H. Lang, *Heat Transfer between Materials and Unsteady Flow from a Helmholtz Type Combustor*, *Drying Technology: An International Journal*, 19(8), 2001
22. Z. WU, X.D. Liu, *Simulation of Spray Drying of a Solution Atomized in a Pulsating Flow*, *Drying Technology*, 20(6):1101-1122, 2002
23. X.D. Liu, I.Zbicinski and C.Strumillo, *Quality Enhancement for Thermal Sensitive Materials Dried with Solid Carriers*, *Drying Technology: An International Journal*, 21 (6) :1067-1077, 2003
24. X.D. Liu, X.M. Ding, X.Z. Wang, Y.K. Pan, C.W. Cao and D.Y. Liu, *Drying R&D in China*, *Drying Technology: An International Journal*, 22 (1-2) , 2004