

NAME: HII CHING LIK

School of Chemical & Environmental Engineering,
The University of Nottingham, Malaysia Campus,
Jln Broga, 43500 Semenyih, Selangor Darul Ehsan, Malaysia.
Tel (office): +603 8924 8358
Fax (office): +603 8924 8017 Mobile: +6012 9797839
Email: hiicl2006@yahoo.com, Ching-Lik.Hii@nottingham.edu.my



1. Work Experience

- Research assistant (2007 - to date), University of Nottingham, Malaysia Campus
- Senior Research Officer (1997-2007), Cocoa Downstream Research Center, Malaysian Cocoa Board, Malaysia

2. Education

- **University of Nottingham, Malaysia Campus (2007 – to date)**
Faculty of Engineering, School of Chemical & Environmental Engineering
Phd Candidate (Chemical Engineering)
Thesis title: Heat Pump Drying in Cocoa Processing and Its Effects on Cocoa Quality
- **Universiti Putra Malaysia (2004)**
Faculty of Food Science and Biotechnology
MSc (Food Processing & Engineering)
Thesis title: Development of a Solar Drying Kit for the Cocoa Smallholders in Malaysia
- **University of Manchester Institute of Science and Technology (UMIST), United Kingdom (1996)**
Department of Chemical Engineering
BEng(Hons), First Class

3. Honours and Awards

- Excellent Service Award, Malaysian Cocoa Board (2004)
- Excellent Service Award, Malaysian Cocoa Board (2000)
- Prize of the Institute in Second Year Chemical Engineering, UMIST, UK (1994/95)
- Sabah State Government Scholarship Award, Malaysia (1993-96)

4. Research Experience

- **Funded Projects (Ministry of Science, Technology and Innovation, Malaysia)**
 - i) Development of sucrose free chocolate using polyols (Project leader)
 - ii) Development of mechanical mixer for cocoa drying (Project leader)
 - iii) Design of a cocoa processing plant (Project leader)
 - iv) Development of cocoa fermentation and drying kits for the smallholders in Malaysia (Project leader)
 - v) Mechanization in cocoa cultivation (Co-researcher)
 - vi) Development of mechanized fermenter drier (Co-researcher)
- **Research areas**
 - i) Drying
 - ii) Fermentation
 - iii) Cocoa processing
 - iv) Chocolate manufacturing
 - v) Product development and quality

5. Publications

- **Journal/Book Chapter**
 - i) **C.L.Hii**, C.L. Law and M.Cloke. (2008). Modeling of Thin Layer Drying Kinetics of Cocoa Beans during Artificial and Natural drying. *Journal of Engineering Science & Technology*, Vol.3(1): 1-10.
 - ii) Chien Hwa Chong, Chung Lim Law, Michael Cloke, **Ching Lik Hii**, Luqman Chuah Abdullah and Wan Ramli Wan Daud. (2008). Drying Kinetics and Product Quality of Dried Chempedak. *Journal of Food Engineering*, Vol. 88(4): 522-527.
 - iii) **Hii CL** (2007) Mathematical modeling of direct solar drying of cocoa beans. *Malaysian Cocoa Journal*, Vol.3: 52-57.
 - iv) **Hii CL** and Chiow FS (2006) Development of particle board from cocoa shells. *Malaysian Cocoa Journal*, Vol.2: 22-26.
 - v) **Ching L Hii**, R Abdul Rahman, S Jinap, YB Che Man (2006) Quality of cocoa beans dried using a direct solar dryer at different loadings. *J Sci Food Agric*, 86(8).
 - vi) **Hii CL**, Samuel YKC and Nor Haslita I (2004) Quality Assessment of Cocoa Beans Produced by Smallholders from Different Regions in Malaysia. *Malaysian Cocoa Journal*, Vol.1: 23-58
 - vii) **Hii Ching Lik**. (2004). Cocoa Drying, Chapter 8, in 'Dehydration of Products of Biological Origin'. Editor: Prof. Arun S. Mujumdar, National University of Singapore. Science Publisher, USA.
 - viii) **Hii Ching Lik**, Alex S. Lopez & Hidayatullah. Hj. Hussein. (2002). Design and Construction of a Fermenter Drier Prototype for Cocoa. *Agricultural Mechanization in Asia, Africa and Latin America*, 33 (2): 40-42.
 - ix) **Hii Ching Lik** & Muhd. Bakri Tukimon. (2002). Evaluation of Fermentation Techniques Practiced by the Cocoa Smallholders. *The Planter*, 78 (910): 13-22.
 - x) **Hii Ching Lik** & Hidayatullah. Hj. Hussein. (2001). Preliminary Assessment of Mechanical Pruning in Cocoa Cultivation. *The Planter*, 77 (903): 317-321.

▪ **Conference/Seminar/Workshop**

- i) **C.L.Hii**, C.L. Law and M.Cloke. (2007). Modeling of Thin Layer Drying Kinetics of Cocoa Beans during Artificial and Natural drying. Paper presented in *The 21st Symposium of Malaysian Chemical Engineers, Somche 2007*, 12-14 December 2007, UPM, Serdang.
- ii) **Hii Ching Lik** & Law Chung Lim. (2007). A Survey of Malaysian Cocoa Smallholders Processing Practices and Its Effects on Dried Cocoa Quality. Paper presented in *The 5th Asia-Pacific Drying Conference*, 13-15 August 2007, HKUST, Hong Kong.
- iii) **Hii Ching Lik**, Law Chung Lim, Russly Abd. Rahman, Jinap Selamat & Yaakob Che Man. (2007). Quality Comparison of Cocoa Beans Dried using Solar and Sun Drying with Perforated and Non-perforated Drying Platforms. Paper presented in *The 5th Asia-Pacific Drying Conference*, 13-15 August 2007, HKUST, Hong Kong.
- iv) **Hii Ching Lik** & Norhaslita Ibrahim. (2006). Design and Testing of a Mechanical Mixer Prototype for Cocoa Drying. Paper presented in *15th International Cocoa Research Conference*, 8-15 October 2006, San Jose, Costa Rica.
- v) **Hii Ching Lik**. (2005). Design and construction of a Small Scale Mechanical Mixer Prototype for Cocoa Drying. Paper presented in *Malaysia International Cocoa Conference MICC 2005*, Sunway Pyramid, Kuala Lumpur, Malaysia.
- vi) **Hii Ching Lik**, Russly Abd. Rahman, Jinap Selamat & Yaakob Che Man. (2003). Effect of Bean Loading on the Quality Characteristics of Cocoa Beans Dried under Direct Solar Dryer. Paper presented in *14th International Cocoa Research Conference*, 13-18 October 2003, Accra, Ghana.
- vii) **Hii Ching Lik**. (2002). Postharvest Treatments for Flavour Quality Enhancement in Malaysian Cocoa Beans. Paper presented in *'Cocoa Technical Seminar, in Conjunction with the Malaysian Cocoa Trade and Technical Awareness Program (MCTTAP)'*, 14-19 October 2002, Kuala Lumpur, Malaysia.
- viii) **Hii Ching Lik**, Russly Abd. Rahman, Jinap Selamat & Yaakob Che Man. (2001). Quality Characteristics of Cocoa Beans Dried under Direct Solar Dryes. Paper presented in *'Persidangan Pegawai Kanan dan Kakitangan ke-8*, 15-16 October 2001, Kuching, Sarawak, Malaysia.
- ix) **Hii Ching Lik**, Russly Abd. Rahman, Jinap Selamat, Yaakob Che Man & Shahrir Shamsudin. (2001). Construction & Evaluation of Direct Solar Driers for Cocoa. *Proceedings of the 2nd Asian-Oceania Drying Conference*, 20-22 August 2001, Pulau Pinang, Malaysia, pp 361-367.
- x) **Hii Ching Lik**. (2001). Drying of Cocoa Beans. *Proceedings of the 2nd Asian-Oceania Drying Conference*, 20-22 August 2001, Pulau Pinang, Malaysia, pp 705-711.
- xi) **Hii Ching Lik** & Muhd. Bakri Tukimon. (2001). Fermentation Technology for the Cocoa Smallholders. Paper presented in *'Persidangan Kebangsaan Pekebun Koko 2001'*, 23-25 October 2001, Kota Kinabalu, Sabah, Malaysia.
- xii) **Hii Ching Lik**. (2001). Drying Technology for the Cocoa Smallholders. Paper presented in *'Persidangan Kebangsaan Pekebun Koko 2001'*, 23-25 October 2001, Kota Kinabalu, Sabah, Malaysia.
- xiii) **Hii Ching Lik**. (2001). Solar Drying in Cocoa Processing. Paper presented in *'Persidangan Pegawai Kanan dan Kakitangan ke-7*, 15-16 October 2001, Melaka, Malaysia.
- xiv) **Hii Ching Lik**, Russly Abd. Rahman, Jinap Selamat, Yaakob Che Man & Shahrir Shamsudin. (2000). Design of a Direct Solar Dryer for Cocoa Drying. *Proceedings of the 13th International Cocoa Research Conference*, 9-14 October 2000, Kota Kinabalu, Sabah, Malaysia, pp 1087-1092.
- xv) **Hii Ching Lik** & Hidayatullah Hj. Hussein. (1997). Development of Mobile In-field Cocoa Pod Breaker and Bean Separator. Paper presented in *'Seminar Dalaman LKM'*, 5-6 September 1997, Kota Kinabalu, Sabah, Malaysia.
- xvi) Hidayatullah. Hj. Hussein & **Hii Ching Lik**. (1998). Assessment of Mechanical Pruning in Cocoa Cultivation. *Proceedings of the Malaysian International Cocoa Conference*, 26-27 November 1998, Kuala Lumpur, Malaysia, pp 221-223.
- xvii) Hidayatullah. Hj. Hussein & **Hii Ching Lik**. (1998). Development of a Mechanized Fermenter Drier for Cocoa. *Proceedings of the Malaysian International Cocoa Conference*, 26-27 November 1998, Kuala Lumpur, Malaysia, pp 224-226.
- i) **Hii Ching Lik**. (2003). Development of a Solar Drying Unit for the Cocoa Smallholders in Malaysia. *MSc Thesis*. Universiti Putra Malaysia.

▪ **Referees**

- i) **Assoc. Prof. Dr. Law Chung Lim**. School of Chemical and Environmental Engineering, The University of Nottingham, Malaysia Campus, Broga Road, Semenyih 43500 Selangor, Malaysia. Email: Chung-Lim.Law@nottingham.edu.my
- ii) **Prof. Arun S. Mujumdar**. Department of Mechanical Engineering, National University of Singapore, 9 Engineering Drive 1, Singapore 117576. Email: mpeasm@nus.edu.sg