



國立臺灣大學
生物產業機電工程學系
Bio-Industrial Mechatronics Engineering

邀請演講

講題

我的生機之路—過去、現在與未來

時間：2016/10/27 (四) 上午 10:20—下午 12:10

地點：臺灣大學知武館四樓 401 演講廳

講者：楊宜璋 博士

學歷：國立臺灣大學生物產業機電工程博士

現職：嘉農企業股份有限公司

(詳細相關經歷請見系網公告)

敬邀

歡迎全系師生蒞臨聽講

I-CHANG (ALLEN) YANG

Curriculum Vitae (Update:

2016/10/25)

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Education

- Ph. D, Dept. of Bio-Industrial Mechatronics Engineering, National Taiwan University
2001.09~2009.06
 - **Yang, I. C.** 2009. Bio-Material detection using optical non-destructive inspection. Ph.D. dissertation. Taipei: National Taiwan University Department of Bio-Industrial Mechatronics Engineering.
- BS, Dept. of Bio-Industrial Mechatronics Engineering, National Taiwan University
1998.09~2001.06

Professional Specialty

- Design, Test and Development of Vegetable Seedlings Production Management Automatic Operation System
- Design and Development of Fruit Post-Harvest Sorting Inspection System
- Non-Destructive Inspection of Bio-Materials Using Spectral Imaging
- Precision Cultivation and Automation in Greenhouse
- Production, Monitoring and Applications of Bioenergy
- Development and Promotion of Biological Control Agent
- Promotion and Extension of Agriculture in Developing Countries

Present Employment

- Jianon Enterprise Co., Ltd.
【Special Assistant for President & Leader of R&D】 2012.03~ until now
- Jianon Biotech (VN) Shareholding Co., Vietnam
【Vice President】 2015.02~ until now
- Taiwan BA Co., Ltd.
【Chairman】 2015.12~ until now

Work Experience

- Department of Nutrition and Food Science, University of Maryland
【Research Associate】

- 2011.03~2012.02
- Center for Food Safety and Security Systems, University of Maryland
【*Post Doctoral Researcher*】
2011.03~2012.02
- Lab of Food Quality, United States Department of Agriculture
【*Visiting Scholar*】
2011.03~2012.02
- Bioenergy Research Center, National Taiwan University
【*Post Doctoral Researcher*】
2010.09~2011.02
- Jianon Enterprise Co., Ltd.
【*Process Engineer*】
2009.08~2009.10
- Food Safety Laboratory, USDA (United States Department of Agriculture)
【*Visiting Scholar*】
2007.09~2008.08
- Department of Nutrition and Food Science, University of Maryland
【*Exchange Student*】
2007.09~2008.08

Publications

- **Yang, I. C.**, K. W. Hsieh, Y. I. Huang, C. Y. Tsai, Y. L. Chen, and S. Chen. 2014. Development of an automation system for greenhouse seedling production management using radio-frequency-identification and local remote sensing techniques. *Engineering in Agriculture, Environment and Food* 7(1): 52-58.
- **Yang, I. C.**, C. Y. Tsai, K. W. Hsieh, C. W. Yang, F. Ouyang, Y. M. Lo, and S. Chen. 2013. Integration of SIMCA and near-infrared Spectroscopy for rapid and precise identification of herbal Medicines. *Journal of Food and Drug Analysis* 21: 268-278 [SCI]
- Chen, J. N., S. Chen, D. M. Yeh, Y. F. Cheng, **I. C. Yang**, H. C. Yang, C. T. Chen, and J. F. Lee. 2011. Development of LED Light Environment Control System. *Journal of Agricultural Machinery*. (Submitted) (ISSN: 1019-0430)
- Chen, Y. L., S. Chen, J. M. Tsai, C. Y. Tsai, H. H. Fang, **I. C. Yang**, and S. Y. Liu. 2012. Optimization of suitable ethanol blend ratio for motorcycle engine using response surface method. *Journal of Environment Science and Health, Part A – Toxic/Hazardous Substance & Environmental Engineering* 47(1): 101-108. [SCI]
- Yang, C. W., S. Chen, F. Ouyang, **I. C. Yang**, and C. Y. Tsai. 2010. A robust identification model for herbal medicine using near infrared spectroscopy and artificial neural network. *Journal of Food and Drug Analysis* 19(1):9-17. (SCI, IF = 0.630, *Food Science & Technology*: Rank = 77/118) (ISSN: 1021-9498) [SCI]
- Hsiao, S. C., S. Chen, **I. C. Yang**, C. Y. Tsai, C. T. Chen, Y. K. Chuang, and Y. L. Chen. 2010. The development of simultaneous multi-channel fluorescence spectral imaging system and study on the inspection environment. *Journal of Agricultural Machinery*. 19(4): 93-108. (ISSN: 1019-0430)
- Hsiao, S. C., S. Chen, **I. C. Yang**, C. T. Chen, C. Y. Tsai, Y. K. Chuang, F. J. Wang, T. S. Lin, and Y. M. Lo. 2010. Evaluation of plant seedling water stress using dynamic fluorescence index with blue LED-based fluorescence imaging. *Computer and Electronics in Agriculture* 72: 127-133. (ISSN: 0168-1699) (SCI, IF = 1.312, *Agriculture, Multidisciplinary*: Rank = 7/44; EI) (NSC-93-2313-B-

002-073 and NSC94-2313-B-002-024)

- Wu, C. H., S. Chen, C. H. Wu, **I. C. Yang**, C. Y. Tsai, and W. T. Tu. 2009. Development of a near infrared spectroscopy standardization model using support vector machine regression. *Journal of Agricultural Machinery* 18(4): 45-58. (ISSN: 1019-0430)
- **Yang, I. C.**, S. R. Delwiche, S. Chen, M. S. Kim, C. Y. Tsai, and Y. M. Lo. 2009. Determination of wheat kernel black point damage using hyper-spectral imaging. *Journal of Agricultural Machinery* 18(3): 29-44. (ISSN: 1019-0430)
- **Yang, I. C.**, S. R. Delwiche, S. Chen, and Y. M. Lo. 2009. Enhancement of Fusarium head blight detection in free-falling wheat kernels using a bichromatic pulsed LED design. *Optical Engineering* 48(2): 023602-1~11. (SCI, IF = 0.553, Optics: Rank = 51/71; EI) (ISSN: 0091-3286)
- Chen, C. T., S. Chen, T. S. Lin, **I. C. Yang**, and Y. K. Chuang. 2008. Integrated study of on-line inspection system for internal quality of mango fruits using near infrared technology. *Journal of Agricultural Machinery* 17(1): 1-14. (ISSN: 1019-0430)
- Chen, C. T., S. Chen, C. Y. Wang, **I. C. Yang**, S. J. Hsiao and C. Y. Tsai. 2008. Evaluation of nitrogen content in cabbage seedlings using hyper-spectral images. *Sensing and Instrumentation for Food Quality and Safety* 2 (2): 97-102. (EI) (ISSN: 1932-7587)
- Chen, S., C. C. Tsai, R. L. C. Chen, **I. C. Yang**, H. Y. Hsiao, C. T. Chen, and C. W. Yang. 2008. Deacetylation of chitinous materials using near infrared spectroscopy. *Engineering in Agriculture, Environment and Food* 1(1): 33-38. (ISSN: 1881-8366)
- Chen, C. T., S. Chen, K. W. Hsieh, H. C. Yang, S. Hsiao, and **I. C. Yang**. 2007. Estimation of leaf nitrogen content using artificial neural network with cross-learning scheme and significant wavelengths. *Transactions of the ASABE* 50(1): 295-301. (SCI, IF = 0.889, Agricultural Engineering: Rank = 8/11; EI) (ISSN: 0001-2351)
- Chen, C. T., S. Chen, H. C. Yang, **I. C. Yang**, and S. J. Hsiao. 2006. Determination of nitrogen content in vegetable leaves using NIR reflectance spectra analysis. *Journal of Agricultural Machinery*. 15 (4): 37-49. (ISSN: 1019-0430)
- Hsieh, K. W., S. Chen, J. H. Lai, and **I. C. Yang**. 2003. Neural network analysis of environmental conditions influencing cabbage seedling quality. *Transactions of the ASAE* 46(2): 501-506. (SCI, IF = 0.889, Agricultural Engineering: Rank = 8/11; EI) (ISSN: 0001-2351)