

**Silpakorn University  
Science and Technology Journal  
SUSTJ**

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# **Silpakorn University Science and Technology Journal**

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Results

Discussion

Conclusion

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Tables and Figures

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### *Book*

Feldmann, H. (2004) *Forty Years of FEBS*, 2<sup>nd</sup> ed., Blackwell Publishing Ltd., Oxford, pp.1121-1129.

### *Chapter in a book*

Langer, T. and Neupert, W. (1994) Chaperoning mitochondrial biogenesis. In *The Biology of Heat Shock Proteins and Molecular Chaperones* (Morimoto, R. I., Tissieres, A. and Georgopoulos, C., eds.), 3<sup>rd</sup> ed., pp. 53-83. Cold Spring Harbor Laboratory Press, Plainview, New York.

#### *Article in a journal*

Hammerschlag, F. A., Bauchan, G., and Scorza, R. (1985) Regeneration of peach plants from callus derived from immature embryos. *Journal of Natural Products* 70(3): 248-251.

Hammerschlag, F. A., Bauchan, G., and Scorza, R. Regeneration of peach plants from callus derived from immature embryos. *Journal of Natural Products* (in press).

#### *Article on the web*

Lee, K. (1999) Appraising adaptative management. *Conservation Ecology* 3(2). [Online URL:[www.consecol.org/Journal/vol3/iss2/index.html](http://www.consecol.org/Journal/vol3/iss2/index.html)] accessed on April 13, 2001.

#### *Proceedings*

MacKinnon, R. (2003) Modelling water uptake and soluble solids losses by puffed breakfast cereal immersed in water or milk. In *Proceedings of the Seventh International Congress on Engineering and Food*, Brighton, UK.

#### *Patent*

Yoshikawa, T. and Kawai, M. (2006) Security robot. U.S. Patent No. 2006079998.

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Each Table and Figure must be on a separate page of the manuscript.

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*for Sustainable Well-Being*

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# Foreword

In the special issue of Silpakorn University Science and Technology Journal (SUSTJ), four invited papers were selected from the 7<sup>th</sup> International Conference on Science, Technology and Innovation for Sustainable Well-Being (STISWB VII) held in Nakhon Pathom-Phetchaburi, Thailand. These papers were extended and reviewed according to SUSTJ process. This conference was very successful with sixty-one papers submitted and presented on 30 July - 2 August, 2015. The conference aims at providing a virtual international forum for presentation and discussion of the state-of-the-art research and development as well as to give opportunities for cooperation among participants in various sub-disciplines of engineering, science and technology.

**Paper 1: “Effect of Defatted Rice Bran, Calcium Carbonate and Clay on Properties of Cellular Natural Rubber”** by Darinya Moonchai, Pattaporn Juntamui and Rungtiwa Ruankum

This paper deals with an investigation on the effects of defatted rice bran (DRB) as a filler for cellular natural rubber (NR) vulcanizate on its cell morphology, water absorption and mechanical properties. According to these observations, DRB can potentially be used as a cheap and more environment-friendly natural filler for cellular natural rubber.

**Paper 2: “Effect of Centrifugal Acceleration on Heat Transfer Characteristics of Rotating Closed-Loop Pulsating Heat Pipes”** by Kritsada On-ai, Niti Kammuang-lue, Phrut Sakulchangsatjatai and Pradit Terdtoon

The qualitative study described in this paper aimed to explore the effect of centrifugal acceleration on heat transfer characteristic of a rotating closed-loop pulsating heat pipe (RCLPHP). The analytical results showed that, when the centrifugal acceleration increased, thermal resistance of the RCLPHPs increased.

**Paper 3: “Hybrid condenser for split type air conditioner”** by Pracha Yeunyongkul and Passawat Watcharadumrongsak

The aim of this paper is to experimentally investigate the application of a hybrid condenser as the condenser for a vapor compression refrigeration system. The experimental results were obtained and compared with the conventional condenser.

**Paper 4: “Life Cycle Cost and Energy Analysis of Roof Systems for a Single-Family House”** by Vichuda Mettanant, Chanikan Boontheep and Vipada Jaroenrat

In this study, the life cycle cost (LCC) and energy consumption of a residential home were evaluated to find the lowest LCC among 12 roof systems. For typical modern Thai houses as used in this study, fiber cement tiles with polystyrene insulation show the lowest LCC among all cases.

This special issue of SUSTJ provides responses and discussions that expand our knowledge of different fields so as to put forward the existing science, technology and innovation into practice in order to ultimately create sustainable well-being to humankind. Finally, we would like to thank cooperation from all committee and participants for successfully organizing the STISWB VII conference.

Assistant Professor Dr. Nitipong Soponpongipat  
STICWB VII 2014 Secretary

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