



Name : Assoc. Prof. Waranyou Sridach

Education

Degree : Ph.D. (Pulp and Paper Technology) Univ. of Asian Institute of Technology
Thailand

M.Sc. (Food Technology)

B.Sc. (Agro-Industry)

Present employment :

Department of Material Product Technology

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Field of interest:

Micro and Nanotechnology of cellulose

Lignin and lignin derivatives

Paper coating

Adhesive and starch technology

Active packaging

Pulp and paper Technology

Current researches:

Lignin aerogel from OPEFB black liquor

Utilization of micro and nanocellulose in starch adhesive

Antimicrobial coating on paper

Awards:

The 1st Place Winning of Poster contest award in the 9th Agro-Industrial Conference (Food Innovation Asia 2007)

Selected Publications :

- Sridach, W.**, Retulainen, E., Nazhad, M.M., Kuusipalo, J. and Parkpian, P. 2006. Biodegradable barrier coating on paperboard; Effects on biodegradation, recycling and incineration. *Paper and Timber*. 88(2): 62-67
- Nazhad, M., **Sridach, W.**, Retulainen, E. Kuusipalo, J and Parkpian, P. 2006. Biodegradation potential of some barrier-coated boards in different soil environments. *J. Appl. Polym Sci*. 100 (4) : 3193-3202
- Sridach, W.**, Hodgson, K.T. and Nazhad, M.M. 2007. Biodegradation and recycling potential of barrier coated paperboards. *Bioresources*. 2(2): 179-192
- Sridach, W.** 2010. Pulping and paper properties of Palmyra palm fruit fibres. *Songklanakarin J. Sci. Technol*. 32 (2): 201-205.
- Sridach, W.** 2010. The environmentally benign pulping process of non-wood fibres. *Suranaree J. Sci. Technol*. 17(2): 105-123.
- Thongsang, P., **Sridach, W.**, Ariffin, F. And Wittaya, T. 2010. Characteristics and properties of rice starch films reinforced with palm pressed fibers. *Int. Fd. Res. J.* 17: 535-547.
- Thongsang, P., **Sridach, W.** and Wittaya, T. 2011. Effect of palm pressed fiber (PPF) surface treatment on the properties of rice starch films. *Int. Fd. Res. J.* 18:287-302.
- Jonjankiat, S., Wittaya, T. and **Sridach, W.** 2011. Improvement of Poly(Vinyl Alcohol) adhesives with cellulose microfiber from sugarcane bagasse. *Iran. Polym. J.* 20(4): 305-317.
- Kaewpoon, P., **Sridach, W.** and Wittaya, T. 2013. Mechanical, thermal and structural properties of rice starch films reinforced with rice starch nanocrystals. *Int. Fd. Res. J.* 20: 439-449.
- Narapakdeesakul, D., **Sridach, W.** and Wittaya, T. 2013. Development of oil palm empty fruit bunches' lignin for production of linerboard coating: Effect of selected stabilizers on coating characteristics and coated linerboard properties. *Prog. Org. Coat.* 76: 482-487.
- Narapakdeesakul, D., **Sridach, W.** and Wittaya, T. 2013. Novel use of oil palm empty fruit bunch's lignin derivatives for production of linerboard coating. *Prog. Org. Coat.* 76: 999-1005.
- Sridach, W.**, Jonjankiat, S., and Wittaya, T. 2013. Effect of citric acid, PVOH, and starch ratio on the properties of cross-linked poly(vinyl alcohol)/starch adhesives. *J. Adhes. Sci. Technol.* 27 (15):1727-1738.

- Narapakdeesakul, D., **Sridach, W.** and Wittaya, T. 2013. Recovery, characteristics and potential use as linerboard coating material of lignin from oil palm empty fruit bunch's black liquor. *Ind. Crops. Prod.* 50: 8-14.
- Narapakdeesakul, D., **Sridach, W.** and Wittaya, T. 2013. Synthesizing of oil palm empty fruit bunch's lignin derivatives and potential use for production of linerboard coating. *Songklanakarin J. Sci. Technol.* 35(6): 705-713.
- Sridach, W.** 2014. Preparation and characterization of moulded pulp container made by hot compression moulding. *IPPTA Quarterly Journal.* 26(2): 89-95.
- Sridach, W.** and Paladsongkhram, R. 2014. Improvement of hardwood kraft paper with narrow-leaved cattail fibers, cationic starch and ASA. *Cellulose Chem. Technol.* 48 (3-4): 375-383.

Conferences/Meeting and Proceeding:

- Chantaramee, Sridach, W. and Bourtoom, T. 2009. Effect of coating mediums on alkyd resin coating stability and coated paperboard properties. Paper will be present in "The 10th Annual Conference of Thai Society of Agricultural Engineering "International Conference on Innovations in Agricultural, Food and Renewable Energy Productions for Mankind", 1-3 April 2009, Nakhon Ratchasima, Thailand.
- Prukattapong, T. Sridach, W. and Bourtoom, T. 2009. Effect of coating mediums on alkyd resin coating stability and coated paperboard properties. Paper will be present in "The 10th Annual Conference of Thai Society of Agricultural Engineering "International Conference on Innovations in Agricultural, Food and Renewable Energy Productions for Mankind", 1-3 April 2009, Nakhon Ratchasima, Thailand.
- Thongsane, P., Sridach, W. and Bourtoom, T. 2009. Effect of Chemical Treatments on Palm pressed Fiber for Reinforcement for Edible Rice Starch Films. Paper will be present in "The 10th Annual Conference of Thai Society of Agricultural Engineering "International Conference on Innovations in Agricultural, Food and Renewable Energy Productions for Mankind", 1-3 April 2009, Nakhon Ratchasima, Thailand.
- Paladsongkhram, R. and Sridach, W. 2011. Influence of alkenyl succinic anhydride and cationic starch on the production of paper from *Trema orientalis* (L.) Blume and *Typha angustifolia* (L.). In the 12nd MJU-Phrae National Research Conference. 1-2 September 2011. Phrae. Thailand.
- Kanjana, A., Auckara-aree, K. and Sridach, W. 2014. The use of waste tea leaves as substitute materials for producing of rubber wood particle board. The 5th National Conference of Industrial Operations Development 2014. 9 May 2014. Bangkok Thailand