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EDUCATION

Aug 2000 ~ Feb 2004

Ph. D., Laboratory of Adhesion & Bio-Composites

Major in Environmental Materials Science,

Seoul National University, Seoul 151-921 S. Korea

Dissertation Title: "Role of Rice Husk Flour as Reinforcing Filler for Thermoplastic Polymer Bio-Composites" (Advisor, Dr. Hyun-Joong Kim)

Mar 1993 ~ Feb 1995

M.S., Laboratory of Adhesion & Bio-Composites

Major in Environmental Materials Science,

Seoul National University, Seoul 151-921 S. Korea

Dissertation Title: "Analysis Model of Semi-Rigid Joint Using Finite Element Method" (Advisor, Dr. Phil-Woo Lee)

Mar 1989 ~ Feb 1993

B.S., Major in Environmental Materials Science,

Seoul National University, Seoul, S. Korea

PROFESSIONAL EXPERIENCE

6. Post-Doctoral Research Associate, Advanced Structures and Composites Center-AEWC, University of Maine from March, 2008 to present.
5. Post-Doctoral Research Associate, Wood Materials and Engineering Laboratory, Washington State University from October, 2004 to February, 2008.
4. Post-Doctoral Research Associate, Major in Environmental Materials Science, Seoul National University from March, 2004 to October, 2004.
3. Part-time Lecturer, Division of Forest Science, College of Agriculture, Chonbuk National University from September, 2001 to June, 2004.
2. Graduate Research Assistant, Major in Environmental Materials Science, Seoul National University from August, 2000 to February, 2004.
1. Graduate Research Assistant, Major in Environmental Materials Science, Seoul National University from March, 1993 to February, 1995.

RESEARCH INTERESTS

- Microfibrillated cellulose/polymer composites, nanocellulose reinforced thermoplastics
- Natural lignocellulosic material-thermoplastic polymer composites
- Wood and non-wood based bio-composites
- Biodegradable polymer composites
- Composites made of agricultural wastes and recycled waste materials
- Wood-based composites for construction materials
- Mechanical, thermal, morphological and viscoelastic analysis of the composite materials
- Fatigue fracture, damage assessment, and reliability analysis

PERSONAL INFORMATION

Date of birth: October 29, 1970

Marital status: Married

Citizenship: S. Korea

LABORATORY TECHNIQUES

- * Manufacturing of lignocellulosic material filled thermoplastic polymer bio-composites.
- * Experienced in handling machines used in the process of manufacturing composite materials such as Extruder, Pelletizer, Injection Molding Machine and Rheomixer.
- * Characterization of composite materials by DSC, SEM and TGA.
- * Experienced in handling DMA, TMA and DMTA.
- * Experienced in handling mechanical testing machines (Instron, Zwick) and servo-hydraulic testing machine (MTS).

REFERENCES:**► Dr. Hyun-Joong Kim**

Committee Member, WCARP (World Congress on Adhesion Related Phenomena),
International Organizing Committee

Editorial Board Member, International J. Adhesion & Adhesives, Elsevier

General Manager and Associate Editor, Society of Adhesion & Interface, Korea (SAIK)

Intermediately Chairman, International Cooperation, SAIK

Editorial Board Member, Adhesion in China

Scientific Committee Member, China-Swiss Bonding

Professor

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► Dr. Michael P. Wolcott

Louisiana-Pacific Professorship of Wood Materials and Engineering, Endowed professorship for research in wood materials and engineering. Washington State University, 1998 to present.

Adjunct Professor, 1996, College of Wood Science, Nanjing Forestry University, Nanjing, China

Louisiana-Pacific Professor, Department of Civil & Environmental Engineering

Research Director, Wood Materials & Engineering Laboratory

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► **Dr. Pizhong Qiao**

Chair, Committee on Advanced Materials and Structures, Aerospace Division (ASD), ASCE, 2005-present.

Control Group Member, Committee on Stability, Engineering Mechanics Division (EMD), ASCE, 2006-present.

Member, SDM Conference Liaison Committee, Aerospace Division (ASD), ASCE, 2004-present.

Member, Technical Administrative Committee on Timber Bridges, the Structural Engineering Institute (SEI), ASCE, Feb. 22, 2007 to Sept. 30, 2013 (six-year term)

Fellow, American Society of Civil Engineers (ASCE), 2007 to present

Associate Professor

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► **Dr. Douglas J. Gardner**

Professor of Wood Science & Technology

Department of Forest Management and

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SELECTED PUBLICATIONS (SCI Journals)

20. Yang, H. S., P. Qiao and M. P. Wolcott. 2009. "Fatigue Characterization and Reliability Analysis of Wood Flour Filled Polypropylene Composites". *Polymer Composites*, (In Press).

19. Yang, H. S., M. P. Wolcott and H. J. Kim. 2009. "Viscoelastic and Thermal Analysis of Lignocellulosic Material Filled Polypropylene Bio-Composites". *Journal of Thermal Analysis and Calorimetry*, (In Press).

18. Yang, H. S., P. Qiao and M. P. Wolcott. 2009. "Flexural Fatigue and Reliability Analysis of Wood Flour / High-Density Polyethylene Composites". *Journal of Reinforced Plastics and Composites*, (In Press).

17. Kim, S., H. S. Kim, H. J. Kim and H. S. Yang. 2008. "Fast curing PF resin mixed with various resins and accelerators for building composite materials". *Construction and Building Materials*, 22(10): 2141-2146.

16. Yang, H. S., M. P. Wolcott, H. S. Kim, S. Kim and H. J. Kim. 2007. "Effect of Different Compatibilizing Agents on the Mechanical Properties of Lignocellulosic Material Filled Polyethylene Bio-Composites". *Composite Structures*, 79(3):369-375.

15. Yang, H. S., H. J. Kim, H. J. Park, B. J. Lee and T. S. Hwang. 2007. "Effect of Compatibilizing Agents on Rice-Husk Flour Reinforced Polypropylene Composites". *Composite Structures*, 77(1):45-55.

14. Kim, H. S., S. Kim, H. J. Kim and H. S. Yang. 2006. "Thermal Properties of Bio-flour-filled Polyolefin Composites with Different Compatibilizing Agent Type and Content". *Thermochimica Acta*, 451(1-2):181-188.

13. Yang, H. S., M. P. Wolcott, H. S. Kim, S. Kim and H. J. Kim. 2006. "Properties of Lignocellulosic Material Filled Polypropylene Bio-Composites Made with Different Manufacturing Processes". *Polymer Testing*, 25(5):668-676.

12. Kim, S., H. J. Kim, H. S. Kim, Y. K. Lee and **H. S. Yang**. 2006. "Thermal Analysis Study of Viscoelastic Properties and Activation Energy of Melamine Modified Urea-formaldehyde Resins". *Journal of Adhesion Science and Technology*, 20(8):803-816.
11. **Yang, H. S.**, H. J. Kim, H. J. Park, B. J. Lee and T. S. Hwang. 2006. "Water Absorption Behavior and Mechanical Properties of Lignocellulosic filler-Polyolefin Bio-Composites". *Composite Structures*, 72(4):429-437.
10. **Yang, H. S.**, M. P. Wolcott, H. S. Kim and H. J. Kim. 2005. "Thermal Properties of Lignocellulosic Filler-Thermoplastic Polymer Bio-Composites". *Journal of Thermal Analysis and Calorimetry*, 82(1):157-160.
9. Kim, H. S., **H. S. Yang.**, H. J. Kim, B. J. Lee and T. S. Hwang. 2005. "Thermal Properties of Agro-Flour-Filled Biodegradable Polymer Bio-Composites". *Journal of Thermal Analysis and Calorimetry*, 81(2):299-306.
8. Kim, H. S., **H. S. Yang** and H. J. Kim. 2005. "Biodegradability and mechanical properties of agro-flour filled polybutylene succinate bio-composites". *Journal of Applied Polymer Science*, 97(4):1513-1521.
7. **Yang, H. S.**, H. J. Kim, J. Son, H. J. Park, B. J. Lee and T. S. Hwang. 2004. "Rice-husk flour filled polypropylene composites; mechanical and morphological study". *Composite Structures*, 63(3-4):305-312.
6. Lee, S. Y., **H. S. Yang**, H. J. Kim, C. S. Jeong, B. S. Lim, and J. N. Lee. 2004. "Creep Behavior and Manufacturing Parameters of Wood Flour Filled Polypropylene Composites". *Composite Structures*, 65(3-4):459-469.
5. Kim, H. S., **H. S. Yang**, H. J. Kim, and H. J. Park. 2004. "Thermogravimetric Analysis of Rice Husk Flour Filled Thermoplastic Polymer Composites". *Journal of Thermal Analysis and Calorimetry*, 76(2):395-404.

4. Yang, H. S., Y. K. Lee, H. J. Kim, and J. Y. Jeon. 2004. "Possibility of using Waste Tire Composites Reinforced with Rice Straw as Construction Materials". *Bioresource Technology*, 95(1):61-65.
3. Son, J., H. S. Yang, and H. J. Kim. 2004. "Physico-Mechanical Properties of Paper Sludge-Thermoplastic Polymer Composites". *Journal of Thermoplastic Composite Materials*, 17:509-522.
2. Yang, H. S., D. J. Kim, and H. J. Kim. 2003. "Rice straw-wood particle composite for sound absorbing wooden construction materials". *Bioresource Technology*, 86(2):117-121.
1. Yang, H. S., D. J. Kim, and H. J. Kim. 2002. "Combustion and Mechanical Properties of Fire Retardant Treated Waste Paper Board for Interior Finishing Material". *Journal of Fire Sciences*, 20(6):505-517.

SELECTED PUBLICATIONS (Korean Domestic Journals)

11. Lim, D. H., S. Kim, Y. J. Park, H. J. Kim, H. S. Yang. 2006. "Decorative Veneer Bonding by Environmental SIS based Hotmelt Pressure-Sensitive Adhesives". *Journal of the Korean Wood Science and Technology*, 34(3):22-29.
10. Kim, S., H. J. Kim and H. S. Yang. 2006. "Viscoelastic Properties of MF/PVAc Hybrid Resins as Adhesive for Engineered Flooring by Dynamic Mechanical Thermal Analysis" (English). *Journal of the Korean Wood Science and Technology*, 34(2):37-45.
9. Park S. Y., G. S. Han, H. S. Kim, H. S. Yang and H. J. Kim. 2005. "Evaluation of the impact on manufacturing temperature and time in the production process of bio-composites" (English). *Journal of the Korean Wood Science and Technology*, 33(1):29-37.
8. Kim, H. S., H. S. Yang, H. J. Kim, Y. K. Lee and H. J. Park. 2004. "Thermal Properties of Corn-Starch Filled Biodegradable Polymer Bio-Composites" (Korean). *Journal of the Korean Wood Science and Technology*, 32(5):29-38.

7. Eom, Y. G., H. S. Kim, **H. S. Yang** and H. J. Kim. 2004. "Physical properties of agro-flour filled aliphatic thermoplastic polyester bio-composites" (English). *Journal of the Korean Wood Science and Technology*, 32(3):71-78.
6. Lee, Y. K., **H. S. Yang** and H. J. Kim. 2003. "Wood Based Composite and Indoor Air Quality" (Korean). *Journal of the Korean Wood Science and Technology*, 31(5):1-14.
5. Lee, Y. K., S. Kim, **H. S. Yang** and H. J. Kim. 2003. "Mechanical Properties of Rice Husk Flour-Wood Particleboard by Urea-Formaldehyde Resin" (English). *Journal of the Korean Wood Science and Technology*, 31(3):42-49.
4. Eom, Y. G., **H. S. Yang** and H. J. Kim. 2003. "Combustion and Mechanical Properties of Fire Retardant Treated Waste Paper-Waste Acrylic Raw Fiber Composite Boards". (English). *Journal of the Korean Wood Science and Technology*, 31(3):1-10.
3. **Yang, H. S.** and P. W. Lee. 1995. "Analysis Model of Semi-Rigid Joint Using Finite Element Method" (Korean). *Journal of the Korean Wood Science and Technology*, 23(3):40-47
2. Kang, K. T., **H. S. Yang** and P. W. Lee. 1994. "Physical and Mechanical Properties of Three- and Single- Layered Particleboard Composed of Poor-grade Chip" (Korean). *FURNITURE*, 5(1):21-28
1. Yoon, H. W., **H. S. Yang** and P. W. Lee. 1993. "Adhesive Characteristics of UF Resin Plywood by Particle Size and Extending Ratio of Some Extenders" (Korean). *Seoul Nat'l. Univ. J.Agric. Sci.*, 18(2):105-111

INTERNATIONAL CONFERENCES PROCEEDING PAPERS

38. **Han-Seung Yang**, Pizhong Qiao, Michael P. Wolcott. 2008.
"Probability of Survival/Reliability Analysis of Wood Flour-Polypropylene

Composites".

4th International Conference on Advanced Engineered Wood & Hybrid Composites

37. Alper Kiziltas, Douglas J. Gardner, Yousoo Han, **Han-Seung Yang**, Chris West. 2008.
"Mechanical Properties of PET/PTT Composite Filled with Microcrystalline Cellulose".
4th International Conference on Advanced Engineered Wood & Hybrid Composites
36. Alper Kiziltas, Douglas J. Gardner, Yousoo Han, **Han-Seung Yang**, Chris West. 2008.
"Microcrystalline Cellulose (MCC)-Nylon 6/6-6 Thermoplastic Polymer Composites:
Preparation, Mechanical and Thermal Properties".
TAPPI 2008 Int'l. Conference on Nanotechnology for the Forest Products Industry
Program Book, pp.16
35. Alper Kiziltas, Douglas J. Gardner, Yousoo Han, **Han-Seung Yang**, Chris West. 2008.
"Thermoplastic Nanocomposite Based on Cellulose Nanocrystals and Polyethylene
Terephthalate (PET)".
TAPPI 2008 Int'l. Conference on Nanotechnology for the Forest Products Industry, pp.6
34. **Han-Seung Yang**, Pizhong Qiao, Michael P. Wolcott. 2008.
"Reliability Analysis on Flexural Fatigue Properties of Wood Flour/High-Density
Polyethylene Composites".
FPS 62nd International Convention, pp.27
33. Alper Kiziltas, Douglas J. Gardner, Yousoo Han, **Han-Seung Yang**, Chris West. 2008.
"Thermoplastic Polymer Nanocomposite Based on Cellulose Crystals and Nylon 6/6-6".
NSTI Nanotech 2008, 11th Annual Meeting, pp.
32. Alper Kiziltas, Douglas J. Gardner, Yousoo Han, **Han-Seung Yang**, Chris West. 2008.
"Mechanical Properties of Polymer Composites from Microcrystalline Cellulose and
Polyethylene Terephthalate".
10th International Conference on Progress in Biofibre Plastic Composites, pp.4
31. **Han-Seung Yang**, Michael P. Wolcott. 2007.

"Fatigue Properties of Wood Flour High-Density Polyethylene Composites with Accelerated Weathering Exposure".

FPS 61st International Convention, pp.35

30. Han-Seung Yang and Michael P. Wolcott. 2007.

"Flexural Fatigue Properties and Cumulative Damage Model Verification of Wood Flour-Polypropylene Composites".

9th International Conference on Wood & Biofiber Plastic Composites, pp.347-356

29. Han-Seung Yang, Michael P. Wolcott. 2006.

"Fatigue Properties of Wood Flour-Filled Polypropylene Composites with Different Environmental Temperature".

FPS 60th International Convention, pp.47-48

28. Sumin Kim, Hee-Soo Kim, Hyun-Joong Kim, Yuhe Deng, Han-Seung Yang. 2006.

"Physico-Mechanical Properties and TVOC Emission Factor of Gypsum Particleboards Manufactured with *Pinus massoniana* and *Eucalyptus sp.*".

FPS 60th International Convention, pp.36

27. Sumin Kim, Hyun-Joong Kim, Shin Do Kim, Han-Seung Yang. 2006.

"Determination of Formaldehyde and TVOC Emission Factor from Wood-Based Composites by Small Chamber Method".

FPS 60th International Convention, pp.36

26. Han-Seung Yang, Michael P. Wolcott, Hee-Soo Kim, Hyun-Joong Kim. 2005.

"Effect of Different Compatibilizing Agents on Lignocellulosic Material Filled Polyethylene Bio-Composites".

Wood Adhesives 2005, Holiday Inn on the Bay, San Diego, CA, USA, pp.25

25. Hee-Soo Kim, Seung-Woo Choi, Hyun-Joong Kim, Han-Seung Yang. 2005.

"Effect of Biodegradability of Bio-Flour Filled Biodegradable Polymer Bio-composites in Soil Environment".

IAWPS2005 (International Symposium on Wood Science and Technology), Pacifico

Yokohama, Yokohama, Japan, pp.137

24. Sumin Kim, Hyun-joong Kim, **Han-Seung Yang**. 2005.

"Effect of Poly(Vinyl Acetate) on Bonding Strength and Formaldehyde Emission in Adhesion of Engineered Flooring".

FPS 59th International Convention (formerly 59th Annual Meeting), Delta Quebec Hotel/Quebec City Convention Center, Quebec City, Canada, pp.27

23. Sumin Kim, Hyun-joong Kim, **Han-Seung Yang**. 2005.

"Comparison of Standard Methods & Gas Chromatography Method in Determination of Formaldehyde Emission from MDF Bonded with Formaldehyde-based Resins".

FPS 59th International Convention (formerly 59th Annual Meeting), Delta Quebec Hotel/Quebec City Convention Center, Quebec City, Canada, pp.27

22. Hee-Soo Kim, **Han-Seung Yang**, Seung-Woo Choi, Hyun-Joong Kim. 2005.

"Mechanical and Thermal Properties of Agro-Flour Filled Biodegradable Polymer Bio-Composites".

FPS 59th International Convention (formerly 59th Annual Meeting), Delta Quebec Hotel/Quebec City Convention Center, Quebec City, Canada, pp.29

21. **Han-Seung Yang**, Hee-Soo Kim, Hyun-Joong Kim. 2005.

"Properties of Lignocellulosic Material Filled Polypropylene Bio-Composites Made with Different Extruding Processes".

FPS 59th International Convention (formerly 59th Annual Meeting), Delta Quebec Hotel/Quebec City Convention Center, Quebec City, Canada, pp.29

20. **Han-Seung Yang**, Michael P. Wolcott, Hee-Soo Kim, Hyun-Joong Kim. 2005.

"Viscoelastic and Thermal Analysis of Lignocellulosic Material Filled Polyolefin Bio-Composites".

8th International Conference on Woodfiber-Plastic Composites, Monona Terrace Community & Convention Center, Madison, Wisconsin, USA, pp.379

19. **Han-Seung Yang**, Michael P. Wolcott, Hee-Soo Kim, Hyun-Joong Kim. 2005.

"Thermal Stability and Thermal Expansion of Lignocellulosic Material Filled Polyolefin Bio-Composites".

8th International Conference on Woodfiber-Plastic Composites, Monona Terrace Community & Convention Center, Madison, Wisconsin, USA, pp.378

18. Hee-Soo Kim, Seung-Woo Choi, Hyun-Joong Kim, **Han-Seung Yang**. 2005.

"Biodegradability of Bio-Flour Filled Biodegradable Polymer Bio-composites in Natural and Compost Soil".

8th International Conference on Woodfiber-Plastic Composites, Monona Terrace Community & Convention Center, Madison, Wisconsin, USA, pp.377

17. **Han-Seung Yang**, Hee-Soo Kim, Hyun-Joong Kim. 2005.

"Water Absorption Behavior and Mechanical Properties of Lignocellulosic filler-Polyolefin Bio-Composites".

39th International Wood Composites Symposium, Wood Materials and Engineering Laboratory, Washington State University, Pullman, WA, USA, pp.44

16. Sumin Kim, Hyun-Joong Kim, **Han-Seung Yang**. 2005.

"Comparison of Formaldehyde Emission of Wood-based Panels with Different Adhesive- hardener Combinations by Gas Chromatography and Standard Methods".

39th International Wood Composites Symposium, Wood Materials and Engineering Laboratory, Washington State University, Pullman, WA, USA, pp.45

15. Hyun-Sung Do, **Han-Seung Yang**, Sung-Eun Kim, Dong-Hyuk Lim, Hyun-Joong Kim. 2004.

"The effect of Poly(ethylene glycol) Dimethacrylate Contents in UV-curable Acrylic Pressure Sensitive Adhesives".

China Swiss Bonding '2004 (2004 Beijing Bonding Technology Symposium, 2004. 10. 16-18), P02-1~P02-5

14. Young-Jun Park, Hyo-Sook Joo, Dong-Hyuk Lim, **Han-Seung Yang**, Hyun-Joong Kim. 2004.

"Role of Melt Index in Adhesion Properties of EVA-based Hot-melt Adhesive".

China Swiss Bonding '2004 (2004 Beijing Bonding Technology Symposium, 2004. 10. 16-18), P03-1~P03-5

13. Han-Seung Yang, Hee-Soo Kim, Hyun-Joong Kim. 2004.

"Effect of Compatibilizing Agent on Interfacial Adhesion of Lignocellulosic Material-Thermoplastic Polymer Bio-Composites".

China Swiss Bonding '2004 (2004 Beijing Bonding Technology Symposium, 2004. 10. 16-18), P04-1~P04-6

12. Young-Jun Park, Hyo-Sook Joo, Han-Seung Yang, Hyun-Joong Kim. 2004.

"Single Lab Shear Strength Test and Wax in EVA-based Hot-melt Adhesive".
Proceedings of the Adhesion Society of Japan, P43A

11. Han-Seung Yang, Hee-Soo Kim, Hyun-Joong Kim. 2004.

"Thermal and Viscoelastic Properties of Lignocellulosic Filler Reinforced Thermoplastic Polymer Bio-Composites".

Proceedings of the Japan Wood Research Society, Sapporo, Japan, pp.236

10. Hee-Soo Kim, Han-Seung Yang, Hyun-Joong Kim. 2004.

"Biodegradability and Thermal-Mechanical Properties of Agro-Flour Filled Polybutylene Succinate Bio-Composites".

Proceedings of the Japan Wood Research Society, Sapporo, Japan, pp.237

9. Han-Seung Yang, Hee-Soo Kim, Hyun-Joong Kim. 2004.

"Physico-mechanical Properties of Lignocellulosic Material Filled Thermoplastic Polymer Bio-Composites".

Proceedings of the Japan Wood Research Society, Sapporo, Japan, pp.581

8. Hee-Soo Kim, Han-Seung Yang, Hyun-Joong Kim. 2004.

"Physical Properties of Agro-Flour Filled Polybutylene Succinate Bio-Composites".

Proceedings of the Japan Wood Research Society, Sapporo, Japan, pp.582

7. Han-Seung Yang, Dae-Jun Kim, Hee-Soo Kim, Hyun-Joong Kim. 2003.

"An Agro-Fiber Reinforced Thermoplastic Polymer Composite".

Forest Products Society's 57th Annual Meeting, Double Tree Hotel, Bellevue, WA, USA, pp.46-47

6. Han-Seung Yang, Hyun-Joong Kim, Jungil-Son. 2003.

"A Rice Husk Powder Reinforced Thermoplastic Polymer Composite".

7th International Conference on Woodfiber-Plastic Composites, Monona Terrace Community & Convention Center, Madison, Wisconsin, USA, pp.299-310

5. Hee-Soo Kim, Han-Seung Yang, Hee-Jun Park, Hyun-Joong Kim. 2003.

"Thermogravimetric Analysis of Rice Husk Flour-Thermoplastic Polymer Composite".

Proceeding of the IAWPS2003, Daejeon, Korea, pp.829-836

4. Han-Seung Yang, Hee-Soo Kim, Bum-Jae Lee, Taek-Sung Hwang, Hyun-Joong Kim.

2003. "Manufacturing of Cellulosic Fiber-Thermoplastic Polymer Composite".

Proceeding of the IAWPS2003, Daejeon, Korea, pp.151-157

3. Han-Seung Yang, Dae-Jun Kim, Hyun-Joong Kim. 2003.

"Rice straw-Wood Particle Composite for Insulation Material".

Proceeding of the IAWPS2003, Daejeon, Korea, pp.196-202

2. Young-Kyu Lee, Sumin Kim Han-Seung Yang, Hyun-Joong Kim. 2003.

"Formaldehyde Emission for Rice Husk Flour Filled Wood-Particleboard of Urea-Formaldehyde Resin by Perforator and Gas Chromatography".

Proceeding of the IAWPS2003, Daejeon, Korea, pp.891-896

1. Han-Seung Yang, Hee-Jun Park, Hee-Soo Kim, Hyun-Joong Kim. 2003.

"Mechanical and Thermal Properties of A Lignocellulosic Fiber/Thermoplastic Polymer Composite".

Proceedings of the Japan Wood Research Society, Kyushu Sangyo University, Fukuoka, Japan, Ib241015

DOMESTIC CONFERENCES PROCEEDING PAPERS

19. Hee-Soo Kim, Seung-Woo Choi, Byung-Ho Lee, Hyun-Joong Kim, **Han-Seung Yang**. 2005.
"Thermal Properties of Bio-flour Filled Polyolefin Bio-composites with Different Compatibilizing Agents".
2005 Proceedings of 32th KSIEC Fall Meeting, pp.147
18. Hee-Soo Kim, Seung-Woo Choi, Byung-Ho Lee, Hyun-Joong Kim, **Han-Seung Yang**. 2005.
"The measurement of biodegradability of bio-flour filled biodegradable polymer bio-composites in compost soil using GPC and FTIR-ATR".
2005 Proceedings of 31th KSIEC Spring Meeting, pp.209
17. Hee-Soo Kim, **Han-Seung Yang**, Hyun-Joong Kim, Sang-Yong Park, Kyu-Seong Han. 2005.
"Evaluation of the impact on manufacturing temperature and time in the production process of bio-composite".
2005 Proceedings of the Korean Society of Wood Science and Technology Annual Meeting, pp.380-383
16. Hee-Soo Kim, **Han-Seung Yang**, Hyun-Joong Kim. 2004.
"Biodegradability of rice-husk flour filled PBS bio-composites in compost soil".
2004 Proceedings of the Korean Society of Wood Science and Technology Fall Meeting, pp.43-46
15. Hee-Soo Kim, **Han-Seung Yang**, Hyun-Joong Kim. 2004.
"Thermal Properties of Corn-Starch Filled Biodegradable Polymer Bio-Composites".
2004 Proceedings of the Korean Society of Wood Science and Technology Fall Meeting, pp.295-298
14. Young-Jun Park, Dong-Hyuk Lim, Hyo-Sook Joo, **Han-Seung Yang**, Hyun-Joong Kim. "Role of Wax in EVA-based Hot-melt Adhesive Properties".

- 2004 The Society of Adhesion and Interface (Seoul National University, Seoul, S. Korea), pp.38
- 13.** Hee-Soo Kim, **Han-Seung Yang**, Hyun-Joong Kim. 2004.
"Study on thermal characterization of agro-flour filled aliphatic thermoplastic polyester bio-composites using DSC and DMTA".
2004 Proceedings of the Korean Society of Wood Science and Technology Spring Meeting, pp.256-260
- 12.** Hee-Soo Kim, **Han-Seung Yang**, Hyun-Joong Kim. 2004.
"Biodegradability and mechanical properties of agro-flour filled aliphatic thermoplastic polyester bio-composites".
2004 Proceedings of the Korean Society of Wood Science and Technology Spring Meeting, pp.74-78
- 11.** **Han-Seung Yang**, Hyun-Joong Kim. 2004.
"Physical properties of lignocellulosic material filled bio-composites".
2004 Proceedings of the Korean Society of Wood Science and Technology Spring Meeting, pp.252-255
- 10.** **Han-Seung Yang**, Hyun-Joong Kim. 2004.
"Thermal properties of lignocellulosic filler-thermoplastic polymer bio-composites".
2004 Proceedings of the Korean Society of Wood Science and Technology Spring Meeting, pp.93-96
- 9.** Hee-Soo Kim, **Han-Seung Yang**, Hyun-Joong Kim. 2003.
"Physical Property and Biodegradability of Cellulosic Bio-filled Aliphatic Thermoplastic Polyester Composites".
2003 Proceedings of the Korean Society of Wood Science and Technology Fall Meeting, pp.238-242
- 8.** **Han-Seung Yang**, Hee-Soo Kim, Hyun-Joong Kim, Bum-Jae Lee. 2003.
"Properties of Natural Filler Reinforced Polyolefin (PP, LDPE, HDPE) Composite;

- Effect of Compounding System and Compatibilizing Agent Type".
2003 Proceedings of the Korean Society of Wood Science and Technology Fall Meeting, pp.70-74
7. Sun-Young Lee, **Han-Seung Yang**, Hyun-Joong Kim, Jong-Nam Lee. 2003.
"Creep Behaviors and Manufacturing Parameters of Wood Flour Filled Polypropylene Composites".
2003 Proceedings of the Korean Society of Wood Science and Technology Fall Meeting, pp.66-69
 6. Young-Kyu Lee, **Han-Seung Yang**, Dae-Jun Kim, Hyun-Joong Kim. 2002.
"Mechanical Properties of Rice Husk Flour-Wood Particle Boards".
Proceedings of the Korean Society of Wood Sci. and Tech. Fall Meeting, pp.216-219
 5. **Han-Seung Yang**, Dae-Jun Kim, Hyun-Joong Kim. 2002.
"Mechanical Properties of Waste Tire Composites Reinforced with Rice Straw".
Proceedings of the Korean Society of Wood Sci. and Tech. Fall Meeting, pp.212-215
 4. **Han-Seung Yang**, Dae-Jun Kim, Hyun-Joong Kim. 2002.
"Combustion and Mechanical Properties of Fire Retardant Treated Waste Paper Board".
Proceedings of the Korean Society of Wood Sci. and Tech. Fall Meeting, pp.95-98
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