

## QINING SUN

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### Education

- 2011.1 – Present Georgia Institute of Technology, School of chemistry and biochemistry  
Ph.D. Candidate of Chemistry
- 2009.8 – 2010.7 USDA Forest Service, Southern Research Station, Pineville, Louisiana  
Visiting Student
- 2006.9 – 2009.7 Chinese Academy of Forestry  
Master of Engineering Degree in Wood Science and Technology
- 2002.9 – 2006.7 DeZhou University  
Bachelor of Engineering Degree in Chemical Engineering and Technology

### Dissertation

- 2006.9 – 2009.7 Study on Preparation of Non-formaldehyde Adhesive by Modified Brown-rotted Wood  
Advisor: Qin Tefu (Professor)
- 2002.9 – 2006.7 Study on Glycolysis Condition of Waster Poly(Ethylene Terephthalate)  
Advisor: Zhai Guanjie (Associate Professor)

### Internship

Summer 2006 SHANDONG HENGYUAN PETROCHEMICAL GROUP CO. LTD.

### Awards

- 2009 The 2<sup>nd</sup> Liangxi Forestry Excellent Student Award (by Chinese Society of Forestry)
- 2005 – 2006 Outstanding Academic Performance Scholarship (by Dezhou University)
- 2003 – 2004 All-round Student Prize (by Dezhou University)
- 2003 Second Prize in the Bilingual Speech Competition of 8<sup>th</sup> Technical Culture Festival

### Meetings Attended

- Jun, 2010 Forest Products Society 64<sup>th</sup> International Convention (Madison, Wisconsin, USA)
- Oct, 2008 15<sup>th</sup> National Conference on Molecular Spectroscopy (Beijing, China)
- Jul, 2008 The 2<sup>nd</sup> National Conference on Biomass Material Science and Technology (China)
- Oct, 2007 '2007 Beijing International Bonding Technology Symposium & 2nd Asian Conference on Adhesion

### Publications & Patents

- SUN Qi-ning.** Research on the Developing Orientation of Chinese Forest Products Industry. Proceedings of the Function and Role of Forest Products Industry in National Economy. 2007
- SUN Qi-ning, QIN Te-fu, LI Gai-yun.** Progress on Activation and Application to Wood Adhesives of Lignin. Chinese Polymer Bulletin. 2008, 9:55-60
- Qi-Ning SUN, Te-Fu QIN, Gai-Yun LI.** Studies on Chemical Groups Characteristics in MWLs of Normal and Brown-rotted Pinus Massoniana. Spectroscopy and Spectral Analysis (Supplement). 2008, 28(10):417-418
- Qi-Ning Sun, Gai-Yun Li and Te-Fu Qin.** Chemical Groups and Structural Characterization of Brown-rotted Pinus Massoniana Lignin. International Journal of Polymer Analysis and Characterization. 2009, 14:1-15
- Li Gai-yun, Qin Te-fu, Huang Luo-hua, **Sun Qi-ning.** A Kind of Adhesive and its Veneer Production. Patent Application Number: 200910086669.6. (Chinese Patent)
- Li Gai-yun, **Sun Qi-ning, Qin Te-fu and Huang Luo-hua.** Effect of Reduction by Sodium Borohydride on the structural Characteristics of Brown-Rotted Lignin. Spectroscopy and Spectral Analysis. 2010, 30 (07) : 1930-1933.
- Qi-Ning Sun, Chung-Yun Hse, Todd F. Shupe.** Characterization and Performance of Melamine Enhanced Urea Formaldehyde Resin for Bonding Southern Pine Particleboard. Journal of Applied Polymer Science. 2011, 119 (6): 3538-3543

### Research Experiences

- Preparing Melamine-Urea-Formaldehyde (MUF) Resin and Adhesive Powder
- Liquefaction of Wood to Produce Adhesive and Foam
- Analysis on Components of Brown-rotted Wood, Especially Milled Wood Lignin Structure
- Modification of Brown-rotted Wood and Preparation of Environmentally-friendly Adhesive

### Computer skills

Language C, Word, Excel, PowerPoint, Outlook, Adobe PhotoShop, Origin, Chem3D draw, MestRec-NMR, EZ-OMNIC-FTIR, Jordi-GPC.

### Language

English GRE : 1420 (1600)