

CURRICULUM VITAE

PERSONAL DATA

Name: Ning Yan

Work Address: Faculty of Forestry
University of Toronto
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EDUCATION

Ph.D. Department of Chemical Engineering and Applied Chemistry (1997)
University of Toronto, Toronto, Ontario, Canada

B.Eng. Department of Electronics Engineering (1991)
Southeast University, Nanjing, Jiangsu, P. R. China

WORK EXPERIENCE

Jul. 2014-Jun. 2019 Value Added Wood and Composite Endowed Chair, Faculty of Forestry,
University of Toronto

Jul. 2012- Professor
Faculty of Forestry, University of Toronto, Toronto, Ontario, Canada

Jul. 2012- Professor, Cross-appointment
Department of Chemical Engineering and Applied Chemistry, University of Toronto,
Toronto, Ontario, Canada

Jun. 2004- Associate Director
Pulp & Paper Centre, University of Toronto, Toronto, Ontario, Canada

Jul. 2009- Graduate Co-ordinator
Jun. 2012 Faculty of Forestry, University of Toronto, Toronto, Ontario, Canada

Jul. 2007- Associate Professor
Jun. 2012 Faculty of Forestry, University of Toronto, Toronto, Ontario, Canada

Jul. 2007- Associate Professor, Cross-appointment
Jun. 2012 Department of Chemical Engineering and Applied Chemistry, University of Toronto,
Toronto, Ontario, Canada

May 2009- Visiting Scientist
Jun. 2009 FPIInnovations-Paprican, Pointe-Claire, Quebec, Canada (on sabbatical leave from the
University of Toronto)

Jul. 2008-
Dec. 2008 Visiting Scientist
Innventia (formerly STFI-Packforsk AB), Stockholm, Sweden (on sabbatical leave from the University of Toronto)

Oct. 2001-
Jun. 2007 Assistant Professor, Cross-appointment
Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, Ontario, Canada

Sep. 2001-
Jun. 2007 Assistant Professor
Faculty of Forestry, University of Toronto, Toronto, Ontario, Canada

Nov. 2000-
Aug. 2001 Research Scientist
Media Technology Centre, Xerox Corporation, Rochester, New York, USA

May 1999-
Oct. 2000 Research Scientist
Trojan Technologies, London, Ontario, Canada

Jul. 1997-
Apr. 1999 Research Scientist
Pulp and Paper Research Institute of Canada, Pointe-Claire, Quebec, Canada

Feb. 1997-
Jun. 1997 Research Assistant
Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, Ontario, Canada

Jan. 1997-
Dec. 1997 Teaching Assistant
Department of Chemical Engineering and Applied Chemistry and Department of Mathematics, University of Toronto, Toronto, Ontario, Canada

Dec. 1991-
Jul. 1992 Assistant Engineer
Electrical Engineering Department, Framatome and SpieBatignolla Co., P.R. China

Jul. 1991-
Dec. 1991 Assistant Engineer
Electrical Engineering Department, Changsha Chemical Engineering and Mining Design Institute, P.R. China

AWARDS AND HONOURS

2014 Endowed **Value Added Wood and Composite Chair**, Faculty of Forestry, University of Toronto

2012 **NSERC-Discovery Accelerator Supplementary Award (DAS)**, Natural Sciences and Engineering Research Council (NSERC), Canada

2011 **Connaught Innovation Award**, Inauguration Round, Connaught Foundation, University of Toronto

2007 **Early Researcher Award**, Ontario Ministry of Research and Innovation

2005 **Best University Paper and Louis Georgevits Memorial Prize**, TAPPI Coating and Graphic Arts Division, Technical Association of Pulp and Paper Industry (TAPPI)

1996 **Best Presentation Award**, Graduate Students' Conference, University of Toronto

1996 **Best Poster Award**, Graduate Students' Conference, University of Toronto

1996 **DuPont/Paprican Scholarship**, Canadian Mechanical Wood Pulps Network, National Network of Centres of Excellence

MEDIA FEATURE ARTICLES AND NEWS

- Research2Reality Blog, “Bark Biorefinery Turns Waste into Green Value-added Products”, March 3, 2016. <http://research2reality.com/headlines/bark-biorefinery-turns-waste-into-green-value-added-products/>
- Featured News, AgriBiomass, AgAnnex “Turning Tree Waste into Green Glue-Eco-Friendly Adhesives Technology Ready for Commercialization”. Feb. 2016 <http://www.agannex.com/research/turning-tree-waste-into-green-glue>
- AgInnovation Ontario Website, “Turning Tree Waste into Green Glue”, February 2, 2016. <http://www.aginnovationontario.ca/en/turning-tree-waste-into-green-glue/>
- Research Matters, Council of Ontario Universities website, “Barking up the Right Tree”, January 13, 2016. <http://yourontarioresearch.ca/2016/01/11131/>
- NSERC Research News Website, “The Benefit of Bark-How a Natural Resource can be Good for Manufacturing — and the Environment”, June 8, 2015. http://www.nserc-crsng.gc.ca/Media-Media/ResearchNewsDetailsNouvellesSurLaRechercheDetails_eng.asp?ID=516
- FPSolutions Newsletter, “Fast talk at FIBRE’s first Commercialization Forum”, May 1, 2014.
- FIBRE (Forest Innovation by Research & Education) Newsletter, “FIBRE’s Commercialization Forum: aka Dragon’s Den for the Paper Industry”, Winter 2014.
- Macromolecular Reaction Engineering, “Synthesis and Characterization of Phenol Formaldehyde Novolac Resin Derived from Liquefied Mountain Pine Beetle Infested Lodgepole Pine Barks”, Featured article as highlighted in journal cover page, Volume 7, Issue 11, 2013.
- ACS Sustainable Chemistry & Engineering, “Producing Bark-based Polyols through Liquefaction: Effect of Liquefaction Temperature”, Featured article as highlighted in journal cover page, Volume 1, Issue5, 2013.
- The Forestry Chronicle, “Ford Motor Company Partners with the University of Toronto”, January 2014.
- University of Toronto Campus News Bulletin, “Ford Motor Company partners with U of T to make greener, lighter cars”, October 2013.
- ACS Sustainable Chemistry and Engineering, “Producing Bark-based Polyols through Liquefaction: Effect of Liquefaction Temperature”, Featured article as highlighted in journal cover page, Volume 1, Number 5, May 2013.
- FIBRE (Forest Innovation by Research& Education) Newsletter, “Sensing the Future of Paper – Sentinel Bioactive Paper Network’s Smart Packaging Application teams with FPIInnovations’ Printed Electronics Program”, Winter 2013.

- ACS Sustainable Chemistry & Engineering, “Bio-based Phenol Formaldehyde (PF) Resins Derived from Beetle Infested Pine Barks - Structure and Composition”, Featured article as highlighted in journal cover page, Volume 1, Number 1, January 2013.
- FPIInnovations Newsletter, “Effects of Coating Formulation on Coating Thermal Properties and Coated Paper Print Quality in Xerography”, January 25, 2013.
- The Working Forest Newspaper, “U of T Forestry Professor Converts ‘waste’ Bark into Commercial Products”, May 2, 2012.
- Biomass Magazine, “Taking Stock in Bark: Wood Biomass Utilization is Taking on a Whole New Shape in Canada”, May 20, 2011.
- Huntsman Polyurethanes News, “Huntsman Polyurethanes Joins Bark Biorefinery Consortium”, May 6, 2011.
- University of Toronto Campus News Bulletin, “U of T’s Connaught Fund Announces Innovation and Summer Institute Awards”, February 3, 2011.
- University of Toronto Bulletin, “This Bark has Commercial Bite”, January 25, 2011.
- Biomass Magazine web and printed edition, “University of Toronto Researches Bark Biorefinery Process”, March 2010 (web) and printed edition May 2010.
- University of Toronto Campus News Bulletin, “U of T awarded \$8.2 million through Research Excellence Fund”, March 5, 2010.
- University of Toronto Research and Innovation “*Edge*” magazine, “The Future of the Forest”, Winter 2010.

CONFERENCE ORGANIZING COMMITTEES AND CHAIR

- 2015-16 Conference Organization Committee, “International Conference on Wood Adhesives 2017”, October , Atlanta, USA.
- 2015-16 Ning Yan, Technical Co-Chair, 14th International Symposium on Bioplastics, Biocomposites, and Biorefining (ISBBB), April, 2016, Guelph, Ontario, Canada.
- 2014 Ning Yan, Technical Co-Chair, 13th International Symposium on Bioplastics, Biocomposites, and Biorefining (ISBBB), May 19-24, 2014, Guelph, Ontario, Canada.
- 2013 Conference Co-Chair, “International Conference on Wood Adhesives 2013”, October 9-11, 2013 Toronto, Ontario, Canada.
- 2012 Session Organizer and Chair, “Biomass Derived Adhesives and Green Chemicals” Session, Forest Products Society-66th International Convention, June 3-5, 2012, Washington, D.C., USA.
- 2012 Conference Program Co-Chair, “12th International Conference on Biocomposites”, May 6-8, 2012, Toronto, Ontario, Canada.
- 2011 Session Co-Chair and Moderator, “Bio-Based and Environmentally Appealing Wood Adhesives”, Forest Products Society-65th International Convention, June 19-21, 2011, Portland, Oregon, USA.
- 2010 Conference Organizing Committee Member, “11th International Conference on Biocomposites”, Toronto, Ontario, Canada.
- 2008 Conference Organizing Committee Member, “International Bio-Fibre Plastics Composites

- Conference”, Toronto, Ontario, Canada.
- 2006 Conference Organizing Committee Member, “International Wood and Bio-Fibre Plastics Composites Conference”, Toronto, Ontario, Canada.
- 2006 Session Organizer and Chair, “Nanotechnology for Improved Wood and Paper Products”, Forest Product Society-Annual International Convention, Newport Beach, California, USA.
- 2005 Session Organizer and Chair, “Nano-Technology and Cellular Genetics to Improve Fiber Supply”, Forest Product Society-Annual Convention, Quebec City, Quebec, Canada.
- 2001-5 Conference Organizing Committee Member, “Wood and Bio-fibre Plastics Composites Conference”, Toronto, Ontario, Canada.
- 2004 Session Chair, “Performance and Additives”, Woodfibre Plastics Composites Conference, Toronto, Ontario, Canada.
- 2003 Session Moderator, “Injection MouldingMinitec-Plastics/Wood Fibre Composites Conference”, Toronto, Ontario, Canada.
- 2002 Session Chair, “Performance and Durability”, Woodfibre Plastics Composites Conference, Toronto, Ontario, Canada.

EXPERT PANEL MEMBERSHIP

- 2016 Academy of Finland Biomass Conversion Review Panel Member, Helsinki, Jan. 20, 2016.
- 2015 Maine Technology Asset Fund Composite Materials Application Evaluation Panel Member, February, 2015 (\$1.7 Million Total Funding application)
- 2011 Ontario Graduate Scholarship (OGS) Expert Evaluation Panel Member
- 2010 Ontario Graduate Scholarship (OGS) Expert Evaluation Panel Member
- 2010 Environmental Engineering Sector International Evaluation Panel member, Natural Resources and Applied Sciences (NRAS) Endowment’s Research Team Program, Province of British Columbia, Canada. (“*NRAS programs support British Columbia’s most accomplished and promising researchers working on projects that hold potential for significant social, environmental and economic benefit to the province in the near- and long-term future.*”)
- 2007 International Expert Panel Member, “EU Sixth Framework Programme-WoodWisdom Network: Sub-call 1A: Wood Production and Property Basic Research” Grants Selection Panel, Helsinki, Finland. (*Combined €20 million budget with participants from 7 EU countries, <http://www.woodwisdom.net/>*)

INTERNATIONAL EXPERT REVIEWER, EDITORIAL BOARD, AND OTHER SCHOLARLY ACTIVITIES

- 2016 Expert Reviewer, OMAFRA-research Fund, Guelph University, Canada
- 2015 Expert Reviewer, Rhode Island Science and Technology Advisory Council Seed Grant Program, USA
- 2015 Expert Reviewer, Green Electronic Council Catalyst Award, USA
- 2015 Expert Reviewer, NSERC Discovery Grant Application, Canada

- 2015 Expert Reviewer, NSERC-CRD Grant Application, Canada
- 2015 External Examiner of a Ph. D Thesis from Anna University, Chennai, India
- 2014 External Examiner of a Ph. D Thesis from Lakehead University, Thunder bay, Canada
- 2014 External Examiner of a Ph. D Thesis from Anna University, Chennai, India
- 2014 External Examiner of two Ph.D. Thesis from Monash University, Australia
- 2014 External Examiner of a Ph.D. Thesis from Guelph University, Canada
- 2014 Expert Reviewer, NSERC-CRD Grant, Canada
- 2014 Expert Reviewer, ISTPCanada-Ontario-IndiaR&DGrant, Canada
- 2014 Expert Evaluator, Czech-Estonian Research Cooperation Programme, Ministry of Education, Youth and Sports, Czech Republic
- 2014 Expert Reviewer, OMAFRA-research Fund, Canada
- 2014 Expert Evaluator, Research within Priority Sectors Programme - RO14, Romania Higher Education, Research, Development and Innovation Funding Agency
- 2013 Expert Reviewer, NSERC-Discovery Grant, Canada
- 2013 Expert Evaluator, Fondazione Cariplo, Italy
- 2013 External Examiner of a Ph.D. Thesis from McMaster University, Canada
- 2013 Expert Evaluator, Norwegian-Estonian Research Cooperation Programme, Estonian Research Council
- 2012 External Examiner of a Ph.D. Thesis for the Monash University, Australia
- 2012 Expert Reviewer, NSERC-Discovery Grant, Canada
- 2012 Expert Reviewer, MITAC's Interact Program, Canada
- 2012 Expert Reviewer, ACOA of AIF grant program, Canada
- 2012 Expert Reviewer, CFI Leaders Opportunity Fund, Canada
- 2012 Expert Reviewer, OMAFRA-research Fund, Canada
- 2012 Expert Reviewer, AAFC Research Fund, Canada
- 2011 Chair, "Wood Adhesives" Technical Interest Group (TIG), Forest Products Society, Madison, Wisconsin, USA.
- 2010 External Examiner of a Ph.D. Thesis for the University of British Columbia, Canada
- 2010 Expert Reviewer, NSERC Strategic Grant Program, Canada
- 2010 Expert Reviewer, NSERC Individual Discovery Grant Program, Canada
- 2010 Expert Reviewer, MITACS ACCELERATE Internship Program, Canada

- 2009 Expert Reviewer, NSERC Individual Discovery Grant Program, Canada
- 2009 Expert Reviewer, Academy of Finland, Finland.
- 2008 International Expert Reviewer, China National Science Foundation: National Strategic Key Projects, P.R.China
- 2007 External Expert Reviewer of a Tenure Promotion Evaluation for the University of Washington at Pullman, USA
- 2007 External Expert Reviewer of a Ph.D Thesis for the University of New Brunswick
- 2007 External Expert Reviewer, USDA NRICGP Grant, USA
- 2007 Expert Reviewer, NSERC Individual Discovery Grant Program, Canada
- 2004-6 Chair, “Pulp and Paper” Technical Interest Group(TIG), Forest Products Society, Madison, Wisconsin, USA.
- 2006 Expert Reviewer, Atlantic Innovation Fund Program, Canada
- 2006 Expert Reviewer, USDA SBIR Grant, USA
- 2005 Expert Reviewer, USDA SBIR Grant, USA
- 2005- Editorial Board Member, “Forest Science and Practice”, Springer.