

# CONTENTS

## FEATURE

- 144 **Growth and Reinvention 2017: A North American Perspective on the Global Wood-Based Panel Industry** by Richard (“Dick”) F. Baldwin, Frederick T. Kurpiel, and Richard (“Rich”) W. Baldwin

## REVIEWED ARTICLES

- 152 **Meta-Analysis of Price Responsiveness of Timber Supply** by Nana Tian, Neelam C. Poudyal, Robert M. Augé, Donald G. Hodges, and Timothy M. Young
- 164 **An Empirical Tool to Measure the Effectiveness of Kaizen Events: A Case Study in the Wood Products Industries** by Sevtap Erdogan, Henry Quesada-Pineda, and Brian Bond
- 179 **Evaluating Sustainability of Buildings Using Multi-Attribute Decision Tools** by Neethi Rajagopalan and Stephen S. Kelley
- 190 **Dealing with the Housing Crisis: A Study on Softwood Sawmills in the Southern United States** by Daowei Zhang, Ying Lin, and Daisuke Sasatani
- 196 **Estimating the Economic Impacts Generated by Small-Scale Wood Pellet Manufacturing in Western North Carolina** by Adam Scouse, T. Eric McConnell, and Richard Venditti
- 205 **Estimating Mill Residue Surplus in Canada: A Spatial Forest Fiber Cascade Modeling Approach** by Saeed Ghafghazi, Kyle Lochhead, Anne-Helen Mathey, Nicklas Forsell, Sylvain Leduc, Warren Mabee, and Gary Bull
- 219 **Applications of Discrete-Event Simulation in the Forest Products Sector: A Review** by Luke Opacic and Taraneh Sowlati
- 230 **Variation in Natural Durability of Seven *Eucalyptus grandis* × *Eucalyptus urophylla* Hybrid Clones** by F. J. N. França, T. S. F. A. França, R. A. Arango, B. M. Woodward, and G. B. Vidaurre
- 236 **Penetration of *n*-Hexadecane and Water into Wood under Conditions Simulating Catastrophic Floods** by Ganna Baglayeva, Wayne S. Seames, Charles R. Frihart, Jane O’Dell, and Evguenii I. Kozliak
- 245 **Quality Indexes for Oak Sawlogs Based on Green Lumber Grade Yields** by T. Eric McConnell
- 250 **An Analysis of the Differences among Log Scaling Methods and Actual Log Volume** by R. Edward Thomas and Neal D. Bennett
- 258 **Investigation of Vacuum and Steam Treatments to Heat Treat and Sanitize Firewood-Grade Ash Logs and Ash Firewood** by Zhangjing Chen, Marshall White, and Zengchu Qiu
- 266 **Magnetic Resonance Studies of Wood Log-Drying Processes** by Clevan Lamason, Bryce MacMillan, Bruce Balcom, Brigitte Leblon, and Zarin Pirouz
- 275 **Adhesives from Polymeric Methylene Diphenyl Diisocyanate Resin and Recycled Polyols for Plywood** by Qi Li, Ming Li, Cheng Chen, Guangmei Cao, An Mao, and Hui Wan
- 283 **A New Type of Nanocomposite Based on Bamboo Parenchymal Cells** by Zhang Shuangyan and Wang Chuangui
- 288 **Strontium-Modified Bacterial Cellulose and a Polyvinylidene Fluoride Composite as an Electroactive Material** by S. Ummartyotin, S. Thiangtham, and H. Manuspiya
- 297 **The Effects of Radial Growth Rate on Wood Properties and Anatomical Characteristics and an Evaluation of the Xylem Maturation Process in a Tropical Fast-Growing Tree Species, *Gmelina arborea*** by Fanny Hidayati, Futoshi Ishiguri, Kazuko Makino, Jun Tanabe, Haruna Aiso, Vendy Eko Prasetyo, Sri Nugroho Marsoem, Imam Wahyudi, Kazuya Iizuka, and Shinso Yokota