



Barry S. Goodell

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Barry S. Goodell is the head of the **Department of Sustainable Biomaterials**. Before coming to Virginia Tech, he was a professor of wood science in the School of Forest Resources at the University of Maine for 27 years. Goodell is an accomplished scientist who has authored over 100 refereed publications in his field, holds several patents, and brought in over \$26 million in collaborative grant funds. He is a faculty co-founder of the University of Maine's Advanced Engineered Wood Composites Center.

As department head, Goodell provides vision and leadership to advance the learning, discovery, and engagement mission of the Department of Sustainable Biomaterials. The department is broadly focused on the study and development of sustainable biomaterials and, under Goodell, is strengthening in the academic major areas of biomaterials and bioenergy, advanced packaging systems, and green residential structures, as well as traditional forest products. Global outreach and leadership will remain an important aspect of the department's focus.

Goodell's personal research interests are broadly focused. He has conducted research on advanced engineered composites using wood and hybrid structural biocomposites, as well as on the biodegradation and protection of wood and other structural biomaterials, the production of carbon nanotubes and mesoporous carbon from lignocellulose substrates, and energy applications related to wood and biofiber. In this latter area, Goodell has projects on the bioconversion of cellulose and biofuels

production from algae that are fed heterotrophically on wood and cellulosic-derived sugars, and on the application of a unique mesoporous carbon derived from wood and plant-based materials for high density energy storage devices such as super capacitors.

Goodell has served as national coordinator for the Wood Utilization Research Centers, co-chair of the National Planning Committee on Forest Products Research for the U.S. Forest Service, and as past-president of the Forest Products Society. He has also served on the Executive Board of the Society of Wood Science and Technology. His international experience is broad, with sabbatical leaves in Japan, Sweden, Germany, and Chile, and extended research visits in other regions of the globe including China, Russia, and throughout Europe. Goodell currently serves on the International Advisory Board of the Journal of Wood Science. He is co-editor of two textbooks as well as several chapters and encyclopedia articles related to the bioconversion of lignocellulose and the biodegradation of wood.

Goodell received his B.S. from the University of New Hampshire and his M.S. and Ph.D. in wood science from Oregon State University. He lives in Blacksburg with his wife, Jody Jellison, who is a professor at Virginia Tech and also serves as associate director of the Virginia Agricultural Experiment Station. Barry and Jody have two adult sons: Nate, an environmental engineer in Ithaca, N.Y., and Matt, a business manager in Hartford, Conn.

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