

Profile

A highly motivated and results driven leader who has over a decade of experience in the forest products industry. President of an international non-profit organization that brings science, dialogue, and stewardship to advanced technologies in forestry and forest products manufacturing.

Experience

Institute of Forest Biotechnology

President

2007 - Present

Promote the science needed to develop a strong factual basis for communicating and understanding advanced forest technologies, including genetic modification.

- Assess risks and benefits of forest technologies and regulations.
- Provide independent and accurate information to Members.
- Establish dialogues with diverse stakeholders.
- Developed Responsible Use Principles in forest biotechnology.
- Leading the Tree Genes Initiative for the U.S. and Canadian Forest Services.
- Managing the Forest Health Initiative and leading its regulatory efforts.

International Paper

Corporate Environmental Manager

2001 - 2006

Engaged customers, government regulators, and policy makers on the environmental aspects of sustainable forestry and forest product manufacturing.

- Worked with federal and state policy and regulatory bodies.
 - Engaged activists who were using market-based tactics against customers.
 - Guided sustainability and stakeholder communications.
 - Produced industry leading sustainability reports.
 - Developed the corporation's carbon balance model and report.
 - Led climate change protocol development for the forest products industry.
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Skills

Technical

Environmental policy
Emission regulations
Sustainable forestry
Manufacturing processes
Customer education
Certification systems
Tree breeding technology

Business Management

Member relations
Fundraising
Fiduciary responsibility
Tax-exempt accounting
Contract negotiation
Benefits administration
Intellectual property control

Leadership

Strategic thinking
Problem solving
Project management
Scientific research
Complexity articulation
Effective delegation
Stakeholder dialogue

Education

Duke University, Durham NC

2001

Master of Environmental Management

School: Nicholas School of the Environment

Master's project: Carbon Sequestration Potential for the Forest Products Industry.

Focus: Resource management, environmental policy, forest carbon cycling.

University of Rochester, Rochester NY

1999

Bachelor of Arts – Energy and the Environment via Chemical Engineering

School: Chemical Engineering

Honors: Cum laude, highest distinction, honors thesis.

Focus: Energy engineering, thermodynamics, resource depletion modeling.

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Presentations

Democratizing Tree Data Collection with TreeTaggr – A Mobile Forest Health Tool. Invited to present at Scion Headquarters. Rotorua, New Zealand. 2013.

Biotech Tree Regulation and Responsibility. International Symposium on Biosafety of Genetically Modified Organisms. St. Louis, MO. 2012.

Integrating Science, Dialogue, and Stewardship for Forest Biotechnology. Canadian Forest Service Seminar. Ottawa, Ontario, Canada. 2012.

Highly Regulated but can't be Certified as Sustainable - Responsible use Principles are Bridging the Gap for Biotech Trees. International Union of Forest Research Organizations. Bahia, Brazil. 2011

Biotech Trees: Perception, Regulation, Stewardship. Invited to present at Society of American Foresters Symposium, Duke University, Durham NC. 2011.

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**Technical
Products**

Regulation, Certification, and Use of Biotech Trees – How and Where Will Biotech Trees be Used in Coming Years? Available at: forestbiotech.org 2013.

Forest Biotech Research at a Crossroads: What Does the Future Hold? Technical Workshop. International Union of Forest Research Organizations Tree Biotechnology. Asheville NC. 2013.

TreeTaggr – The Forest Health Tool at Your Fingertips. Poster. Kauri Dieback Symposium. Auckland, New Zealand. 2013.

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Publications

Costanza, A. 2013. Regulation, Certification, and Use of Biotech Trees. Institute of Forest Biotechnology. Available at: forestbiotech.org

Costanza, A., S. McCord. 2010. Responsible Use: Biotech Tree Principles. Institute of Forest Biotechnology. Available at: responsibleuse.org

Costanza, A., S. McCord. 2009. Forest Biotechnology and its Responsible Use – A Biotech Tree Primer. Institute of Forest Biotechnology. Available at: responsibleuse.org

McCord, S., A. Costanza. 2008. Genetically Engineered Forest Trees – Identifying Priorities for Ecological Risk Assessment. Institute of Forest Biotechnology.

Cote, W., R.J. Young, A. Costanza, J.P. Tonelli, and C. Lenocker. 2003. A Carbon Balance Method for Paper and Wood Products. Environmental Pollution 116:S1-S6.
