

Joint Forum on Bioenergy Sustainability and Lifecycle Analysis

5th Annual Forum of the California Biomass Collaborative Jointly with the California Energy Commission, the California Air Resources Board, the Center for Energy Efficiency and Renewable Technologies, and the University of California at Davis



Sacramento Convention Center
Sacramento, California, May 28, 29 & 30, 2008

Day One—Producing Biomass and Bioenergy Sustainably	
8:00 a.m.	Registration and continental breakfast buffet
8:30	Opening and Welcome—Forum logistics, agenda, and forum survey Bryan Jenkins, California Biomass Collaborative
8:45	Overview of California Policy in the Context of Sustainability Moderator: Bryan Jenkins, California Biomass Collaborative
	Bioenergy Action Plan, AB 1007, and AB 118 Commissioner Jim Boyd, California Energy Commission
	AB 32 and the Low Carbon Fuel Standard Chair Mary Nichols, California Air Resources Board
Session 1—The Rationale for Sustainability: Why it's needed, what it is, and the potential for practical application	
9:35	Moderator: Bryan Jenkins, California Biomass Collaborative
	Principles of Sustainability Dan Kammen, Energy and Resources Group, UC Berkeley
	The Roundtable on Sustainable Biofuels: Ensuring that Biofuels Deliver on their Promise of Sustainability Charlotte Opal, Roundtable on Sustainable Bioenergy
	Sustainable Biofuel Production, A US-DOE Perspective Alison Goss Eng, DOE Biomass Program
10:45	Break
Session 2—International Panel on Sustainability Criteria and Standards	
11:00	Moderator: Bryan Jenkins, California Biomass Collaborative
	The United Nations Environment Programme's Approach to Bioenergy Martina Otto, United Nations Environment Programme [Unable to attend and present]
	Sustainability Criteria for Biofuels Ariane de Dominicis, European Commission
	Brazilian Ethanol Industry: Sugarcane's Sustainability Today and Tomorrow Joel Velasco, Unica
	Discussion and Q&A
12:30 p.m.	Lunch and Keynote Speaker— Sustainable Biomass in the European Union Axel Friedrich, Umweltbundesamt Germany
Session 3—Domestic Panel on Sustainability Criteria and Standards	
1:45	Moderator: John Shears, Center for Energy Efficiency and Renewable Technologies
	Bioenergy Sustainability and Lifecycle Analysis Alan Hecht, US EPA-Office of Research and Development
	California Initiatives in Sustainability and Renewable Energy Andrew Schwartz, California Public Utilities Commission [Presented without slides]
	Sustainability Issues for Bioenergy in the Northeast Michelle Manion, NESCAUM
3:00	Break
Session 4—Domestic Panel on Sustainability Criteria and Standards (continued)	
3:15	Moderator: Martha Gildart, California Biomass Collaborative
	Sustainability Objectives of the NGOs Danielle Fugere, Friends of the Earth

	25x'25 Sustainability Presentation Nathan Rudgers, 25x'25
	Biomass Energy and Agricultural Sustainability Steve Kaffka, California Biomass Collaborative
4:30	Discussion and Q&A
4:50	Wrap-up Bryan Jenkins, California Biomass Collaborative
Day 2—Lifecycle Analysis and Sustainability Implications	
8:00 a.m.	Registration and continental breakfast buffet
8:30	Opening—Forum logistics, agenda Enrique Manzanilla, US EPA
8:40	Welcome and Keynote Speaker—Developing Sustainable Biorefineries Robin Jenkins, DuPont
Session 5—Land Use Issues	
9:00	Moderator: Rob Williams, California Biomass Collaborative Global Land Use Issues Keith Kline, DOE-Oakridge Modeling Land Use Impacts on Greenhouse Gas Performance Thresholds Robert Larson, US EPA-National Vehicle and Fuel Emissions Lab Food versus Fuel: When Scarcities Collide Don Smith, McGill University Lifecycle Analysis of Biofuels and Land Use Change Bruce Dale, Michigan State University
10:15	Break
Session 6—Lifecycle Analysis Methodologies: Scope and limitations, data needs, policy application	
10:30	Moderator: Anil Prabhu, California Air Resources Board Lifecycle Analysis of Greenhouse Gas Emissions from Biofuels Alissa Kendall, UC Davis GREET Model and Applications to Bioenergy Stefan Unnasch, Life Cycle Associates Sustainable, Environmentally Friendly, and Cost-Effective Production of Biofuels in California Johan Six, UC Davis BESS Model: Biofuel Energy Systems Simulator Ken Cassman, University of Nebraska
12:30	Lunch
Session 6—Lifecycle Analysis Methodologies (continued)	
1:45	Moderator: John Courtis, Air Resources Board Fuels Lifecycle Issues in Generic Studies and Within a Regulatory Framework Jean Francois Larive, CONCAWE Technological, Climate Change, and Sustainability Aspects of Future Transportation Fuels Sabrina Spatari, UC Berkeley British Columbia: Climate Change and Energy Policy Paul Wieringa, B.C. Ministry of Energy, Mines and Petroleum Resources Lifecycle Management of Municipal Solid Waste: Perspectives and Tradeoffs Keith Weitz, RTI International
3:45	Break
Session 7—Moderated Discussion of Lifecycle Analysis Methodologies	
4:00	Moderator: McKinley Addy, California Energy Commission A Framework for Defining, Measuring, and Certifying Sustainability for an Energy System McKinley Addy, California Energy Commission

	How to Best Assess Sustainability Within the Framework of LCA Panel of the day's speakers
5:00	Wrap-up Diana Schwyzer, California Energy Commission
Day 3—Standards, Industry Certification, and Policy Implications	
8:00 a.m.	Registration and continental breakfast buffet
8:15	Opening—Forum logistics, agenda Sharon Shoemaker, CIFAR
8:25	Welcome and Keynote Speaker Secretary AG Kawamura, California Department of Food & Agriculture
Session 8—Certification	
8:45	Moderator: Val Tiangco, California Energy Commission Overview of Sustainability Certification Barbara Bramble, National Wildlife Federation [Presented without slides] Sustainability of Sustainability Policy—Low Carbon Fuels Rahul Iyer, Prima Fuel The Process of Independent Certification Susan Harris, GreenTick [Presented by Martha Gildart, California Biomass Collaborative] The Market Value of Sustainability and Certification Harry Simpson, Crimson Renewable Bioenergy
10:25	Break
Session 9—Current Industry Practices	
10:40	Moderator: Sharon Shoemaker, CIFAR Sustainable Practices and Feedstock Production Ralph Sims, IEA & Massey University Growing a Robust Biofuels Economy Mark Downing, DOE-Oakridge Biotechnology: New Tools for Sustainable Biofuels Production Brent Erickson, BIO Discussion and Q&A
12:30	Lunch and Keynote Speaker Commissioner Karen Douglas, California Energy Commission
Session 10—Shaping State Policy for Sustainable Energy	
1:45	Moderator: Tim Olson, California Energy Commission The Role of LCA in Characterizing Sustainability Sonia Yeh, UC Davis Sustainability and the Low Carbon Fuel Standard Bob Fletcher, California Air Resources Board Voluntary Actions Towards a Sustainable Energy Future Hal LaFlash, Pacific Gas & Electric Meeting the Needs of the Public for Sustainable Bioenergy: Perspectives of the NGOs Patricia Monahan, Union of Concerned Scientists [Presented without slides]
2:50	Break
Session 10—Shaping State Policy (continued)	
3:00	Moderated Panel Discussion, Conclusions and Recommendations for State Actions Panel of the above speakers
3:45	Forum wrap-up Bryan Jenkins, California Biomass Collaborative