

From: [David Bransby](#)
To: wlr@tamu.edu
Subject: Follow-up
Date: Wednesday, October 14, 2009 10:27:05 AM
Attachments: [Biotech book.doc](#)

Bill,

Sorry to have let so much time pass before getting back with you about contributing to this book chapter.

Would you be able to put together 2-4 single spaced pages on high yield sorghum for cellulosic biomass production for inclusion in the grass chapter of the book for which an outline is attached? The focus should be on the status of the crop right now relative to development as a cellulosic biomass crop, what the greatest needs are relative to genetic improvement, and what genetic improvement methods should be used to address those needs. If at all possible, I'd like this by the end of the month (Friday, Oct 30).

I know that is not much time, but neither is it really much work, and I would hope that the co-authorship would be worth it to you.

Thanks!

David.

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Plant Biotechnology for Sustainable Production of Energy and Co-products

1. Introduction overview: World energy resources and the need for biomass for energy and lower fossil emissions

Charles E. Wyman Email: charles.wyman@ucr.edu

2. Designing crops for improved biomass caloric content and attributes for burning

Gordon Allison Email: goa@aber.ac.uk

3. Designing plants to meet biomass feedstock needs

Peter N. Mascia, Steven R. Thomas, Bonnie R. Hames, Richard B. Flavell

4. Designing preprocessing for a uniform and consistent feedstock

Shahabadine Sokhansanj Email: sokhansanjs@ornl.gov

5. Engineering advantages, challenges and status of sugar and starch based biomass resources

6. Engineering advantages, challenges and status of grass energy crops

Proposed Authors

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7. Engineering advantages, challenges and status of trees-eucalyptus, poplar, willow, pines

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8. Engineering advantages, challenges and status of oil crops

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9. Use of algae and other microorganisms for energy production

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10. Gene Flow in Perennial Grasses: Lessons from GM Creeping Bentgrass

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11. Genetic Modification of Dedicated Bioenergy Crops for gene confinement

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12. Identifying and overcoming barriers to utilizing 600-700 Million Tons of biomass per year: Logistics. How do we get biomass to the processing facility? Economics of scale??

Thomas Ulrich and Richard Hess Email: thomas.ulrich@inl.gov

13. Prospects for the integrated biorefinery and markets for co-products

Prof. Dr. Birgit Kamm Email: Kamm@biopos.de

14. Ecology of perennial grass species selected for biofuel development
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15. The challenge of sustainability and carbon sequestration in biomass feedstock production
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16. Bioenergy crops integrated into landscapes: impacts on ecosystem processes and environmental quality
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17. Invasive species biology, ecology, management and risk assessment
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18. Establishing local markets for energy grasses and ecosystem services
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19. The Problem Is The Solution: Directing Biofuels Policy Toward Solving Multiple Long-Term Problems In Agriculture.
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20. Energy and carbon balance of energy crops using life-cycle analysis
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21. Criteria for sustainability and certification of biomass use
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22. US regulatory system for genetically engineered biomass crops
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