

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** JALandivar@ag.tamu.edu; DBaltensperger@ag.tamu.edu  
**CC:** JASlovacek.EXTERNAL.Internet; WDugas.EXTERNAL.Internet; MAHussey.EXTERNA...  
**Date:** 1/5/2009 1:23 PM  
**Subject:** Meetings with CI and Monsanto

David and Juan,

Meeting with Kater and CI Weds morning at 6:30 is on location TBD.

Now have potential meeting with Monsanto group Thursday for bkfst to discuss donation of molecular markers and potential cotton RD. Can you join for Monsanto meeting?

Thanks,

Bill

Return-path: <bmccutchen@tamu.edu>  
 Received: from agmail.tamu.edu (agfilter.tamu.edu [165.91.106.52]) by ag.tamu.edu with ESMTTP; Mon, 02 Nov 2009 16:17:53 -0600  
 X-ASG-Debug-ID: 1257200197-47fe03490000-ICpXK5  
 X-Barracuda-URL: http://165.91.106.52:8000/cgi-bin/mark.cgi  
 Received: from cis-exch.mlans.ad.tamu.edu (localhost [127.0.0.1]) by agmail.tamu.edu (Spam & Virus Firewall) with ESMTTP id AC9928249B9for <dbaltensperger@ag.tamu.edu>; Mon, 2 Nov 2009 16:16:37 -0600 (CST)  
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 X-Barracuda-Envelope-From: bmccutchen@tamu.edu  
 X-MimeOLE: Produced By Microsoft Exchange V6.5  
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 Subject: NIFA Funding Opportunity Food Safety, ICGP  
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 Message-ID: <E9AF4DDA2B34F5438C1A18F79F473745043D7E84@cis-exch.mlans.ad.tamu.edu>  
 Thread-Topic: NIFA Funding Opportunity Food Safety, ICGP  
 Thread-Index: ApcA8u1nbWbw+3qRcCz8Ck/MOmrvgABIIY2  
 From: "McCutchen, Bill" <bmccutchen@tamu.edu>  
 To: "Acuff, Gary R." <gacuff@tamu.edu>, <jcarey@poultry.tamu.edu>, "Keeton, Jimmy" <jkeeton@tamu.edu>, "Baltensperger, David" <dbaltensperger@ag.tamu.edu>, <t-davis@tamu.edu>, "Cross, Russell" <hrcross@tamu.edu>  
 Cc: "Avant, Bob" <bavant@tamu.edu>, "Lacewell, Ron" <rlacewell@tamu.edu>  
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 X-Barracuda-Spam-Report: Code version 3.2, rules version 3.2.2.13562Rule breakdown  
 belowpts rule name description-----

Fyi

----- Original Message -----

From: Mike Cronan <mikecronan@tamu.edu>  
 To: McCutchen, Bill; Simpson, Shay  
 Sent: Mon Nov 02 15:31:10 2009  
 Subject: NIFA Funding Opportunity Food Safety, ICGP

<http://www.nifa.usda.gov/fo/foodsafetyicgp.cfm>

Integrated Research, Education, and Extension Competitive Grants Program: National Integrated Food Safety Initiative

The purpose of the National Integrated Food Safety Initiative is to support food safety projects that demonstrate an integrated approach to solving problems in applied food safety research, education, or extension. Various models for integration of applied research, education, and extension will be considered for funding. Applications describing multi-state, multi-institutional, multidisciplinary, and multifunctional activities (and combinations thereof) are encouraged. Applicants are strongly encouraged to address at least two of the three functional areas of research, education, and extension (i.e., research and extension, research and education, or extension and education).

**From:** "McCutchen, Bill" <bmcCutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu; JMoore@ag.tamu.edu; JHollowa@ag.tamu.edu; JA...  
**CC:** RVAvant.EXTERNAL.Internet; AHelms.EXTERNAL.Internet  
**Date:** 2/24/2009 7:56 PM  
**Subject:** Monsanto

Juan,

Can we receive a final draft of the 3rd Executive Summary - field/trait GxE RD - for Monsanto soon? We have the other two proposals and need to send all 3 to St. Louis soon.

Also, Jaroy and I had a good discussion with Bayer and cotton this past week. We will follow-up soon.

Thanks,

Bill

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** MAHussey.EXTERNAL.Internet  
**CC:** CMAuckerman@ag.tamu.edu; RVAvant.EXTERNAL.Internet; DBaltensperger@ag.ta...  
**Date:** 1/10/2009 1:10 PM  
**Subject:** Monsanto Fw: Fwd: Fw: AgriLife Grant is News Feature on TAMU Homepage

One of the action items with Monsanto in email below.

I specifically asked about donation of molecular markers to USDA and AgriLife/College per previous conversations. Monsanto clearly indicated they want donation to be made exclusively to AgriLife and AM. Not sure if this creates problems with USDA?

Significant donation for cotton breeders and trait specialists.

Thanks  
Bill

----- Original Message -----

From: McCutchen, Bill  
To: 'kkoza@ag.tamu.edu' <kkoza@ag.tamu.edu>; Gibbs, Bill; Phillips, Kathleen  
Cc: Baltensperger, David; Smith, Wayne; Dugas, William  
Sent: Sat Jan 10 10:00:16 2009  
Subject: Re: Fwd: Fw: AgriLife Grant is News Feature on TAMU Homepage

Thank you Kathy. I spoke with Janice, John Purcell (head of Cotton) and others from Monsanto in San Antonio this week - concerning the gift and other research topics.

My sense is that Monsanto would like to make the announcement at TX Cotton Gin Show in Lubbock first week in April. They want to work with you and your team to line up media events to include local, state and national coverage.

As for the donation, I believe Monsanto wants to make the donation exclusive to both the College and AgriLife Research and are no longer considering other benefactors. This is a big score for our cotton faculty and RD programs. Just like the assistant ships for plant breeding.

Drs. Baltensperger and Smith can add additional details. Dr. Smith will be the primary POC for the molecular marker donation with Roy Cantrell of Monsanto. Please call anyone of us for more details.

Thanks much and need your guidance.

Bill

----- Original Message -----

From: Kathy Koza <kkoza@ag.tamu.edu>  
To: Gibbs, Bill; Phillips, Kathleen  
Cc: McCutchen, Bill  
Sent: Fri Jan 09 14:10:51 2009  
Subject: Fwd: Fw: AgriLife Grant is News Feature on TAMU Homepage

Bill: we issued a press release in November regarding the endowment--it ended up on the college website. As I understand, at the time we weren't sure who would receive the cotton markers. I'm attaching the press release we issued in November as well as the information on the cotton marker donation that Janice Person, cotton PR for Monsanto, sent back in November. It should provide some background.

Kathleen & Bill, I think this might be more directed toward the college, but please read Bill McCutchen's email below. I think we can work with Monsanto on this one, but I agree with Bill that it is something we should highlight.

Thanks for your help.  
Kathy

Kathy Koza  
Communications Manager  
Texas AgriLife Research  
AgriLife Marketing & Communications  
979.458.2786  
kkoza@ag.tamu.edu

>>> "McCutchen, Bill" <bmccutchen@tamu.edu> 01/08/09 3:48 PM >>>  
Kathy,

Wanted to alert you of this recent award and announcement on TAMU website via Engineering. Is there anyway that Ag Communications can do a "follow-up" announcement perhaps with quotes from Drs. Shim, Gross and Hans, providing more details on potential of this technology?

Also and on an unrelated note, one of Monsanto's Director's of Communication will be following up with you shortly per a gift of cotton molecular markers/technology. Monsanto would like this to be a major announcement bw AgriLife and Monsanto. They would like to plan for a press release to major media for the first week in April. Can you assist us in this important endeavor? We are making great strides with Monsanto on numerous fronts.

Thanks much,

Bill

----- Original Message -----

From: Dennis Gross <plpm-head@ag.tamu.edu>  
To: McCutchen, Bill; Hussey, Mark; Dugas, William  
Cc: Won-Bo Shim <wbshim@tamu.edu>  
Sent: Thu Jan 08 14:37:55 2009  
Subject: AgriLife Grant is News Feature on TAMU Homepage

Please note that the \$1 million grant that Won-Bo Shim received together with Dr. Han and myself is the second posting today in the News Headlines box on the TAMU homepage. The title is:

"Han receives USDA grant to develop a portable plant pathogen detection system"

We were not aware that the news release was being prepared by Engineering. It does show that Engineering values grants such as this and is ready to get out news releases to publicize major grant achievements -- even if they originated under the AgriLife Research umbrella. It would be good for Dr. Shim to get due credit for his leadership on this project.

Thanks,  
Dennis

## Monsanto Meeting Notes

January 8, 2009

Janice Persons, John Purcell, Doug Rushing, Bill McCutchen, Juan Landivar, David Baltensperger, Wayne Smith, Adam Helms

- I. SSR Marker Donation
  - a. Monsanto going through legal & financial red tape, more than ½ signatures needed for release are accounted for
  - b. Proper paperwork to go along with SSR's is being accounted for
  - c. A&M to be given donation
    - i. John Niu with international Cotton genome project with USDA is part of the reason SSR's coming to college station
  - d. Setup February Meeting with Monsanto & TAMU cotton team members
- II.
  - a. Facilitate subgroups for feed/food/pest control
  - b. Monsanto could provide expertise for regulatory issues
    - i. FDA/EPA/USDA
    - ii. Also could help with field trials
- III. R&D Collaborations
  - a. TAMU/Monsanto need to inventory where work is already being done
    - i. By February meeting
  - b. Look at drought/wue/irrigation scheduling using ET and developing affordable soil moisture sensors for producers
  - c. Develop breeding programs based on fiber spinning ability
    - i. Work with Eric Hequet and Lubbock folks
  - d. White papers developed for breeding and WUE

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu; KHeinz@ag.tamu.edu; C...  
**CC:** RSBrown@ag.tamu.edu; PLSchuerman.EXTERNAL.Internet; PGibbs@ag.tamu.edu; ...  
**Date:** 12/19/2009 9:20 AM  
**Subject:** Monsanto visit

I just want to say thanks for a very productive visit in St. Louis. I thought we made significant headway with Monsanto to include identifying 3 or more areas of mutual interests going forward.

- 1) Drought/WUE
- 2) Germplasm screening / variety development
- 3) Agronomics / GxE, soil-borne pathogens
- 4) Others TBD

Adam will be circulating a one-page summary of next steps that AgriLife, CI and Monsanto agreed to pursue for potential collaborative RD initiatives.

I would ask you to keep these matters and our discussions yesterday confidential as we are under an NDA. It is important to build trust with Monsanto if we are to develop a long term, mutually beneficial relationship, and especially with Beltwide right around the corner.

Finally, Merry Christmas and Happy Holidays! We will be in touch.

Bill



**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** RVAvant.EXTERNAL.Internet; DBaltensperger@ag.tamu.edu; t-gerik@tamu.edu;...  
**CC:** dgalow@tamu.edu; NBPenn.EXTERNAL.Internet; JASlovacek.EXTERNAL.Internet;...  
**Date:** 4/9/2009 8:08 PM  
**Subject:** Monsanto Water Summit

All,

Per recent discussions with Monsanto, they would like to have a 2 day water summit on corn and cotton programs. Adam Helms will be following up on details, but I would ask you to consider topical areas and key faculty that might attend these meetings.

They may want an overview on cane as well.

Thanks,

Bill

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu; JALandivar@ag.tamu.edu; JMoore@ag.tamu.edu; ...  
**CC:** PLSchuerman.EXTERNAL.Internet; JASlovacek.EXTERNAL.Internet; SSimpson.EX...  
**Date:** 1/10/2009 10:41 AM  
**Subject:** Monsanto, CI and Cotton

Based on meeting and discussions with Chevron and Cotton Inc. there are several action items, I plan to send a note to appropriate unit heads asking if faculty are interested in developing Executive Summaries for potential RD projects with Monsanto.

To include RD in the areas of:

- 1) Molecular Breeding for improved varieties;
- 2) Trait selection for prioritized abiotic and biotic traits of mutual interests; e.g. drought, staple length/quality (with TTU BioPolymers);
- 3) Best management practices for drought, water-use efficiency, insect, nematode, weeds, pathogen and/or other
- 4) low gossypol - event selection., with regulatory assistance as well as IP path forward with CI.

These are just ideas based on conversations with Monsanto. I would appreciate feedback. There are obviously many potential areas, but 4 broadly written ES is more than enough at this stage.

Monsanto also requested a summary of current projects going on across Research, Extension and the College. They are interested in potentially integrating projects as appropriate. These data would also be valuable in developing ES for potential new RD initiatives.

Monsanto wants to visit in February. Let's push for late February as we need time to prepare. We need to quickly designate areas and PI or co-PI faculty teams for ES development and list of ongoing projects. and include other institutes where appropriate, e.g. USDA, CI and/or TTU?  
Also need to start discussions on MA with Monsanto (perhaps to include their subsidiaries - that would save incredible amount of negotiating time in the future)

We should likely set a telecon and/or discuss during Ag conference. Again, need your input and assistance.

Thanks much,

Bill

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** RVAvant.EXTERNAL.Internet; DKLunt.EXTERNAL.Internet; WDugas.EXTERNAL.Int...  
**CC:** AHelms.EXTERNAL.Internet; WSMITH@ag.tamu.edu; JALandivar@ag.tamu.edu; DB...  
**Date:** 1/8/2009 9:16 AM  
**Subject:** Monsanto

Good set of meetings with Monsanto. Several follow up items to include Executive Summaries. They are planning visit in February.

Bill

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** shague@tamu.edu; JDever@ag.tamu.edu; WSMITH@ag.tamu.edu;  
JHollowa@ag.tam...  
**CC:** WDugas.EXTERNAL.Internet; AHelms.EXTERNAL.Internet; sfspurlin@tamu.edu; ...  
**Date:** 1/29/2009 11:49 AM  
**Subject:** Monsanto

All,

Just spoke with John Purcell and they are looking at a visit the first week of March - so heads up for you and faculty if you can attend. I have another call with John next week to nail down dates and tentative agenda.

Yes, they are looking for 3 executive summaries; so we will need an NDA. I will send a note to this effect this weekend to make sure we get the exec summaries written by teams that have been designated.

As I see it, Juan and team have an executive summary well down the road as well as Wayne, Jane and Steve. So we will need Stelly and team to develop the 3rd one with a lot of "cross-talk" and integration amongst and bw these 3 areas. David - can you talk with Stelly/Rathore, etc..

Have not broached corn yet, but plan to next week.

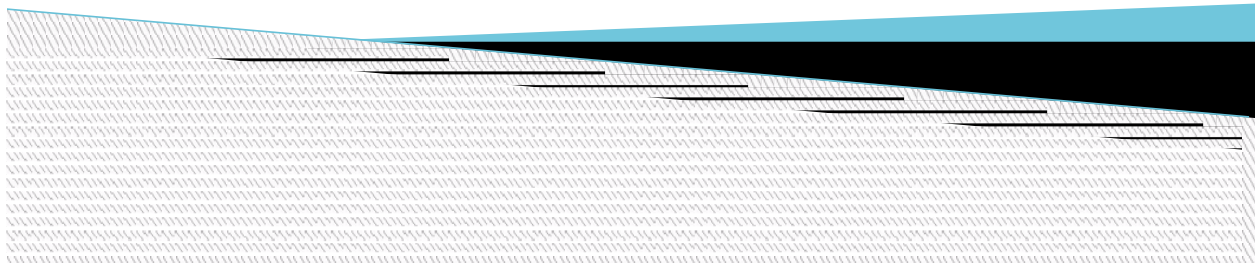
Shayna/Peter - contact person for Monsanto Connie Armatron (sp?).

Thanks much

Bill

# National Alliance for Advanced Biofuels and Bioproducts (NAABB)

Sustainability and Modeling  
C. Meghan Starbuck  
New Mexico State University



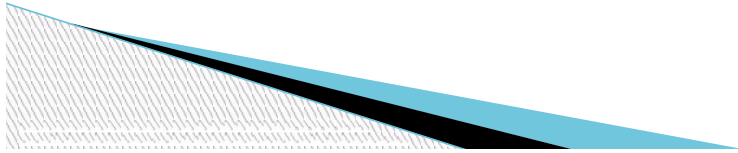
Environment  
Economy  
Algal Fuel  
Industry  
Energy  
Policy  
Global Dynamics

## Interconnected Problems Schema

Each Component must be model as a separate, but dynamically interconnected, system in order to understand an Algal Fuel Industry (AFI).

# Interconnected Solutions

Open Architecture NAABB  
Broad Search for Solutions  
Technology Sharing  
Rapid Technology Deployment  
Best Technologies Move Forward  
Optimize Best Solutions  
Applied AFI  
Optimized Solutions Applied  
Fuel Utilized



# Proposal Requirements

- ▶ Detailed discussion of reasoning behind proposed strategy.
- ▶ Why pathway has highest PROBABILITY of success.
- ▶ Sustainable practices, life-cycle and economic analyses, and resource management SHOULD BE ADDRESSED RELATIVE TO THE PROPOSED PATHWAYS.
- ▶ Economic and Resource issues must be taken into account throughout the process and be incorporated into the proposed strategies.

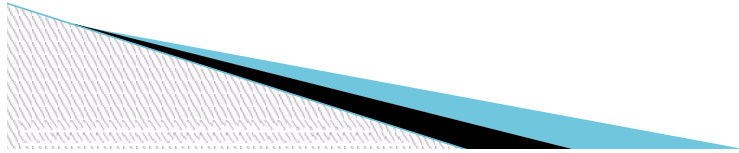


▶ FOA Pg. 9



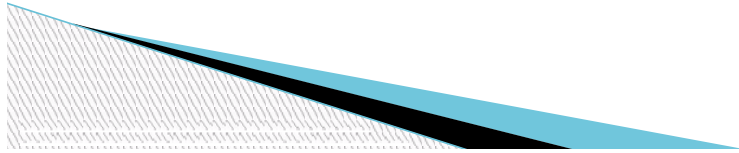
# Proposal Requirements

1. Develop the **framework** for **sustainable** algae production that is ultimately required for this technology to reach **commercialization** (FOA Pg. 9, 1<sup>st</sup> Paragraph).

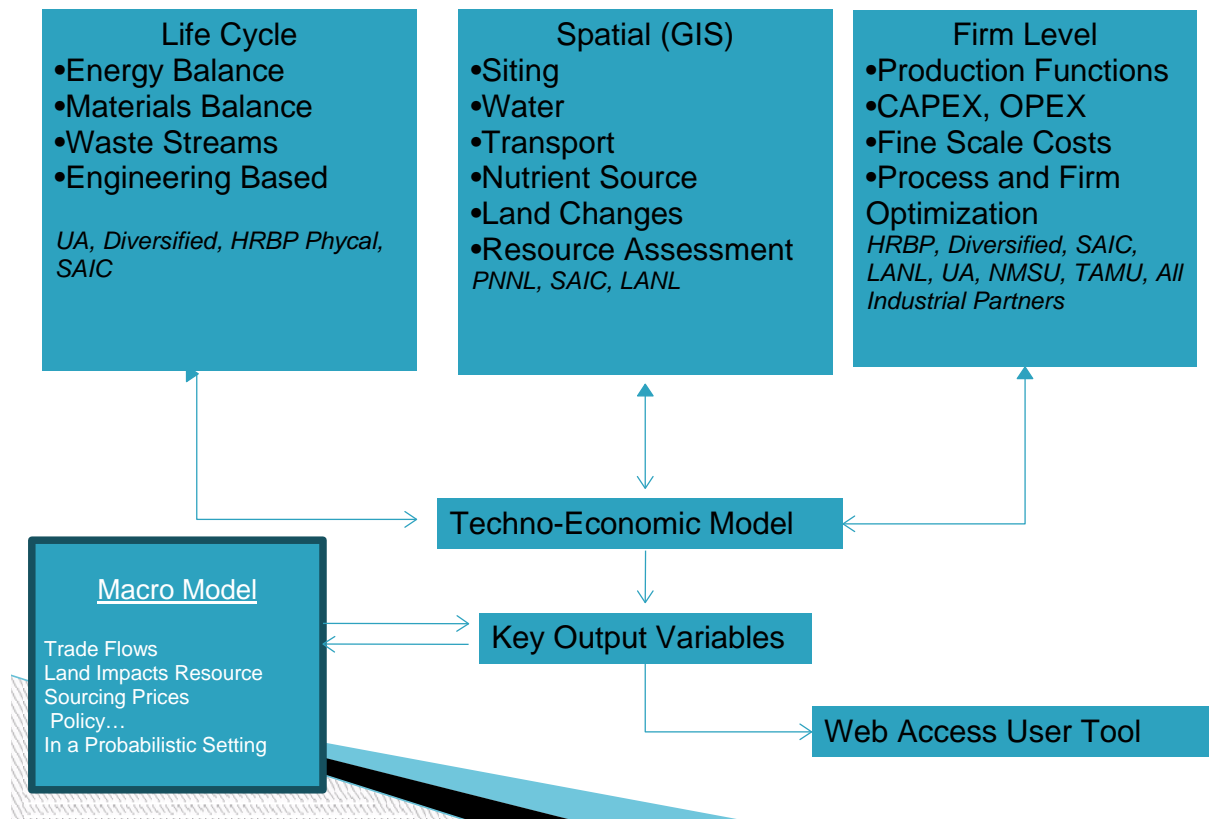


# Key Objectives

- ▶ Create a Framework for Analysis and Standardization of modeling outputs and integrated hierarchy of modeling efforts.



## Varying Scale Modeling Efforts (E<sup>3</sup>) Micro-Firm-Farm-Regional




# Sustainability Structure


- ▶ Integration and Standardization:
- ▶ Each technical area will provide the Alliance:
  - Equations
  - Assumptions
  - Units
  - Results
- ▶ This information will ‘feed’ into the individual partner/team models and into the Alliance Techno–Economic (TE) model
- ▶ The TE model will feed into the Macro model.



# Sustainability Structure

- ▶ TE model is comprehensive and utilizes the different models and platforms of all partners and industry.
  - ▶ Does not re-invent the wheel, instead, existing models can be used to populate the model.
  - ▶ Key is a probabilistic distribution of outcomes and ability to optimize processes and platforms across technological solutions.
- 

# Value from Modeling

- ▶ Modeling is an integrated activity that drives the data generating process.
  - ▶ The data populates validated and refereed models for both NAABB partners and public users.
  - ▶ Public models are based on the same validated structure, but model is not released to public.
  - ▶ User tools are web accessible.
- 

# Value from Modeling

- ▶ Storehouse of data and information generated by the project.
- ▶ Integrates all team members into a true consortia.
- ▶ Potentially creates the industry standard information and analysis tool set.
- ▶ Allows for feeder streams from the micro to the macro.
- ▶ Solves the 'tower of babel' currently plaguing the nascent industry.

# Key Elements

- ▶ Standards

- Units
- Variables
- Documentation
- Output to a common platform

- ▶ Validation

- Equations
- Results

- ▶ Firm to Consumer to Society Scales

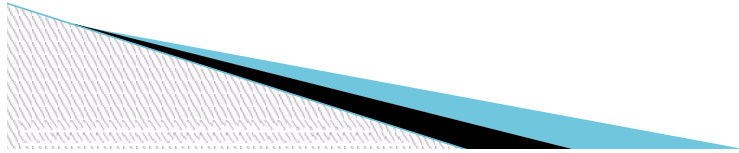
- Provides a common platform for the Alliance and external stakeholders → key to commercialization





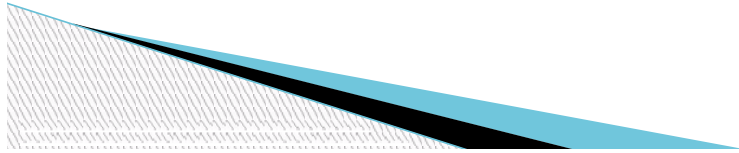
# Proposal Requirements

- ▶ Three Broad Technical Areas:
  1. Feedstock Supply–Strain Development & Cultivation
  2. Feedstock Logistics–Harvesting & Extraction
  3. Conversion/Production–Accumulation of Intermediate & Synthesis of Fuels & Co-Products

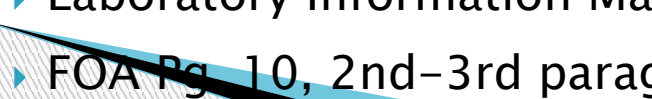


# Proposal Requirements

- ▶ End of three years: design report
  - Current state of technology
  - Cost analysis
  - Life Cycle Analysis
  - Modeled cost: 1<sup>st</sup> of kind and Nth facility
- FOA Pg. 10, 1<sup>st</sup> Paragraph

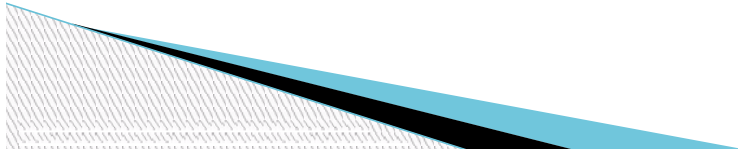


# Proposal Requirements

- ▶ Management Plan:
  - ▶ Strategic methods that maximize the exchange of information and existing capabilities.
  - ▶ Publish findings
  - ▶ Share foundational research at meetings
  - ▶ Make available unmodified algal strains
  - ▶ Laboratory Information Management System
  - ▶ FOA Pg. 10, 2nd-3rd paragraphs.
- 

# Proposal Requirements

- ▶ NOTE: Consortium is expected to bring together the human and physical capital necessary to achieve the objectives of this FOA. Limits to 20% of funding for modifications to existing equipment (experimental infrastructure).
- ▶ FOA PG 12

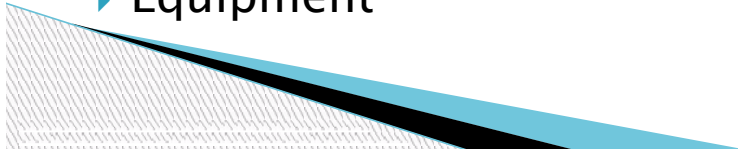


# Proposal Requirements

- ▶ SF424
- ▶ Project/Performance Location—the congressional district information is required!
- ▶ Project Summary/Abstract file (1 page)
- ▶ Project Narrative File (30 pages)
- ▶ Resume File (no page limit)
- ▶ NDA
- ▶ MOU
- ▶ Budget Justification File
- ▶ ARRA Budget Justification
- ▶ Letters of Commitment
- ▶ Subaward Budget File
- ▶ Budget for FFRDC
- ▶ Authorization for FFRDC
- ▶ Environmental Questionnaire
- ▶ SF–LLL Disclosure of Lobbying

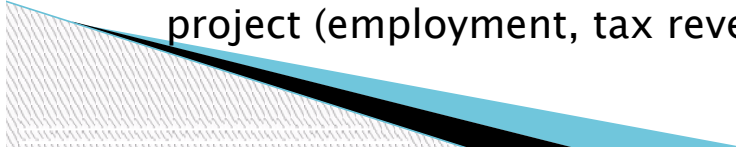
# Project Narrative (30 Pages)

- ▶ Cover Page and Table of Contents (not in limit)
- ▶ Project Objectives
- ▶ Cost Share Reduction and Justification
- ▶ Intellectual Property Discussion
- ▶ Merit Review Criteria Responses (formatted as in FOA)
- ▶ Equipment



# Project Narrative Contd

- ▶ Statement of Project Objectives (SOPO)
- ▶ Clear description of all activities and how the project objectives will be met.
- ▶ ARRA goals and objectives met by the proposed work
  - Must include quantification of job creation/preservation and economic recovery in expeditious manner.
  - Other DIRECT economic impacts attributable to project (employment, tax revenues, state GDP)



**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** "Baltensperger, David" <dbaltensperger@ag.tamu.edu>  
**Date:** 10/20/2010 11:33 AM  
**Subject:** Nebraska

Just saw announcement for Dean and Director of Nebraska.





*Improving Life Through Science and Technology.*

## **Program**

### **Negotiations and Intellectual Property**

1:30 – 4:00 p.m.

Monday, January 12, 2009

Rm 206 MSC

- 1:30 Introductory Comments  
Bill McCutchen, Associate Director, Texas AgriLife Research
- 1:45 Mechanics of Corporate Engagement  
Bob Avant, Program Director, Texas AgriLife Research
- 2:20 Intellectual Property Management  
Peter Schuerman, Office of Technology Commercialization
- 2:55 Case History on Successful Major Corporate R&D Program  
Mike Gould, Resident Director, Texas AgriLife Research and Extension Center,  
Weslaco
- 3:30 Case History of Small Grains Program  
Steve Brown, Director, Foundation Seed Service

*Specific topics which will be covered include:*

- *Landscape for major sponsored research opportunities in the current economic situation*
- *Functions of and resources available through the Corporate Relations Office and the Office of Technology Commercialization*
- *Strategies and techniques to engage major sponsored research programs (Corporate and Federal)*
- *Who should be engaged and when*
- *Preparation of one-pagers and executive summaries*
- *Coordination of proposal preparation*
- *Publication of information*
- *Disclosure*
- *Patenting*
- *Protection of Intellectual Property*
- *A Case History of a Chevron Project*
- *A Case History of the Small Grains Program*



*Improving Life Through Science and Technology.*

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- *Patenting*
- *Protection of Intellectual Property*
- *A Case History of a Chevron Project*
- *A Case History of the Small Grains Program*

NEW TITLE:

**Clay-based enterosorbent therapies for aflatoxins**

NEW TITLE:

**Clay-based enterosorbent therapies for aflatoxins**



# Inhibition of Fatty Acid Oxidation in Golden Algae and Plants as a Mechanism for Increasing Plant-Derived Oil.

Newell, M K <sup>1</sup>; Tobin, R P <sup>1</sup>; Villalobos-Menuety, E M <sup>1</sup>; Trauger, R <sup>2</sup>

<sup>1</sup>University of Colorado at Colorado Springs, Colorado Springs, CO 80918; <sup>2</sup>MetaCytolytics, Leucadia, CA.



## Abstract

With increasing energy demands and decreasing oil reserves there is a clear need and demand for the efficient and clean production of alternative sources of energy. Typically the preferred plants in the process are rich in sucrose and efficient in sucrose storage as demonstrated by the effective use of sugar cane in Brazil. While effective in climates such as Brazil, the challenge is that sugar cane will only grow in tropical environments. Here we suggest that another approach is to directly increase the production of oil in plants by metabolically modifying algae and/or other plants to efficiently increase oil storage in the plant. Our work has demonstrated that by modifying fuel metabolism specifically by inhibiting fatty acid oxidation in plants we can increase the selective storage of oils. In some cases we have used the golden algae-like fungus *Schizocytium* as a model organism. In addition we have used various seeds including cucumber, soybeans and corn. Our studies have resulted in an issued patent U.S. Patent No. 7105718 that describes various methods of modifying fuel metabolism in plants and a second patent pending. Our current efforts are aimed at increasing the efficiency of oil production in a range of algae and plants including *Jatropha*. The advantages of the approach include the diversity of plants that can become fuel sources. The approach also has the advantage and the potential for the stimulating local economies as a result of the increased demands for a diversity of crops that can be used as biofuels.

## Introduction

Long term energy solutions, a global energy challenge increasingly include renewable fuels. Renewable energy sources include wind, solar, wind, and biomass. Only biomass has the potential to act as feedback for existing refineries. Our current refineries have the capability for hydrogenation and hydrocracking to further refine the fatty acid into usable transportable fuels. Advanced refining reduces the possibility of gelling in lower temperatures which is a critical concern. Leading biofuel sources include corn, sugar cane, palm, soy and algae. Algae has the potential to produce impressive increases in galactose of oil product compared to other biofuel sources. Some reports yield up to 100 times greater (Torbenson, 2009). Unlike agricultural sources or biofuel which require extensive and all elements that compete with natural forests and habitats and require water and land production imparting upward pressure on world food prices, algae-based biofuel can be grown in areas unsuitable for most food crop cultures.

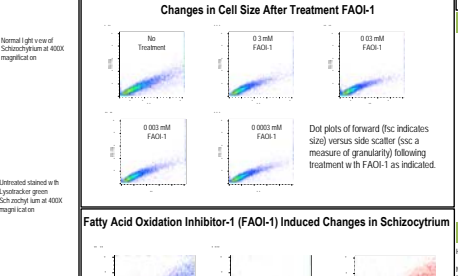
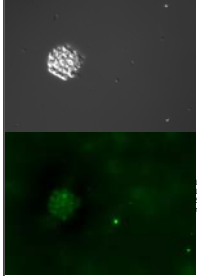
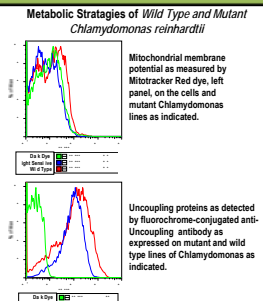
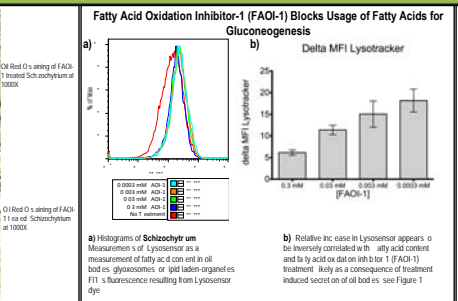
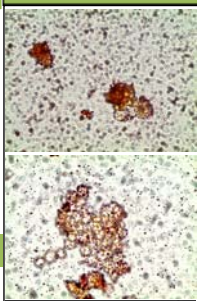
Currently about 9 percent of the nation's liquid fuel supply comes from biofuels - most of it corn-based ethanol. And by 2022 Congress has mandated that biofuel levels reach 36 billion gallons (Mowatt, 2009). This renewable fuel standard (RFS) poses a challenge for a large-based fuel as the Federal law does not include algae in its recipe of acceptable biofuels that should make up this 36 billion gallons.

There are several emerging algae-based biofuel companies pursuing commercial biofuel production. Sapphire Energy based in La Jolla, California recently will be producing more than 100 million gallons a year by 2018 and 1 billion gallons a year by 2020 (Howe, 2009) almost 3 percent of the RFS. Sapphire is one of the largest and most respected players in the industry with CJ Warner a 10 year BP oil executive as CEO and leading BP executives and the Rockefeller family as key supporters. Conterra Airlines successfully tested Sapphire Energy's algae-based biofuel jet fuel in a test flight on January 7, 2009 in a Boeing 737-800 jet aircraft. Conterra Airlines reported an increase in mileage attained with the algae-based biofuel due to lower burning temperatures in the engines.

Exxon Energy, a leader in global energy, has partnered with Synthetic Genomics, an algae-based biofuel company led by genomics expert J Craig Venter. Exxon-Synthetic Genomics utilizes genes that engineered microalgae to continuously secrete oil and potentially simplify the harvesting process by simply skimming the oil from the surface.

There are over 40,000 algae species, but most leading companies genetically engineer or select the strains or oil production. Photosynthesis that algae require only photosynthesis, CO<sub>2</sub> and water which the plant uses to produce glucose and further metabolize into oils or oils stored within or an uncultured future.

Our technology is novel because it will be a concept that was originated for the treatment of drug resistant tumors, which involves metabolic disruption of the process that cells use to convert glucose to lipids and vice versa based upon the fuel availability of the cell. Utilizing uncoupling proteins, cells are able to switch from burning glucose to produce energy or store it as fat, to burning fat to produce glucose or energy. This lipid switch is a key drug resistance of tumor cells and also present in plants when they go dormant or the winter and then grow leaves and photosynthesize in the spring. The US Department of Energy's Algal Biofuels Program (led by scientist from Ames/Sheehan, 1998) references this switch and reports the identification of Acetyl CoA Carboxylase (ACCase), a key enzyme necessary for the metabolic process of algae production of oil. The ACCase gene was isolated and cloned, but reports did not substantiate its effect on oil production in algae. We have discovered that algae (Chlamydomonas reinhardtii) and types of fungi which are algae-like (Schizocytium) express uncoupling proteins that appear to be equal for fatty acid oxidation which once inhibited results in storage and secretion of oil typically in the form of triacylglycerols (TAGS) which is the preferable form of natural oil to transport most directly to biofuel.



## Conclusions

- Fatty Acid Oxidation inhibitor-1 alters the metabolic strategies of plants preventing them from burning the oil which could be used for fuel.
- The fatty acids stored in glyoxysomes of *Schizocytium* are oil, as stained by Oil Red O.
- Uncoupling proteins are an important factor in determining metabolic strategies in plants.
- This technology can be utilized on a variety of preexisting bio-fuel sources to increase the production of a renewable source of fuel.

## Acknowledgments

We are grateful to Jeff Rogers and M. Lynn Bly for their assistance and technical assistance. Dr. Thomas Walker and Brent Wallace for assistance with micrographs. Funding was provided by support from the CU Tech Transfer to Life Sciences Inc. and the Coleman Trust at CU.

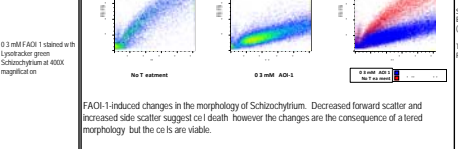
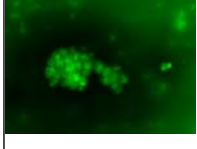
## References

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Mowatt J. (2009) Exxon to Invest Millions to Make Fuel From Algae. In NYTimes.com (New York Times).

Sheehan J. D. et al. (2008) John Sheehan et al. (2008) A Look Back at the US Dept. of Energy's Algal Biofuels Program. Biofuels from Algae: U.S. Dept. of Energy Report of the Algal Biofuels Program. (Golden, CO: National Renewable Energy Laboratory).

Torbenson C. (2009) Algae Biofuels: From pond scum to Jet Fuel (Oregon, Uni of Ore's RenewableEnergy.com) pp 2.





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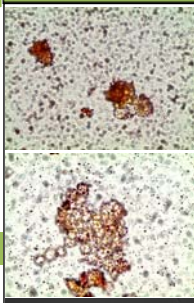
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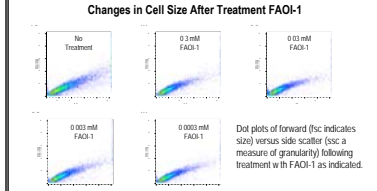
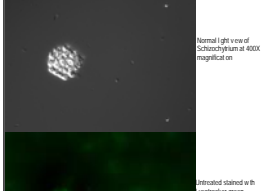
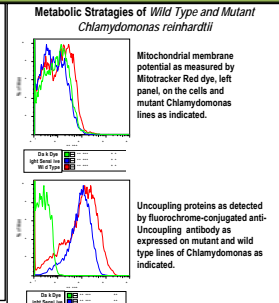
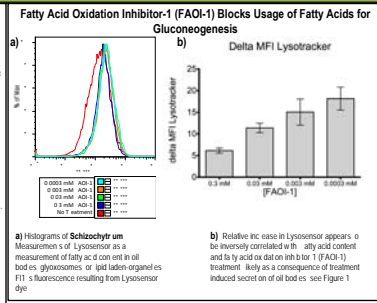
There are over 40,000 algae species, but most leading companies genetically engineer or select the strains, or oil production. Photosynthesis requires water and carbon dioxide and water which the plant uses to produce glucose and further metabolize it into oils or oils stored in an uncultured state.

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Oil Red O staining of FAOI-1 treated Schizocytium at 1000X

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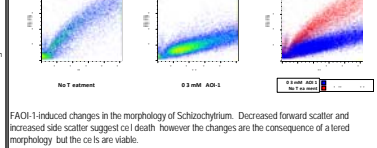
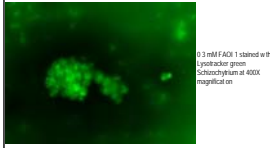
## References

Howe K. (2009) Is Algae the Biofuel of the Future. In Science American (Greenmail)

Mowatt J. (2009) Exxon to Invest Millions to Make Fuel From Algae. In NYTimes.com (New York, The New York Times)

Shoemaker J. D., Tu, B., Borenstein, John, Borenstein, Paul (1998) A Look Back at the US Dept. of Energy's Algal Biofuels Program. Biofuels from Algae: U.S. Dept. of Energy Report of the US Dept. of Energy (Golden, CO: National Renewable Energy Laboratory)

Torbenson C. (2009) Algae Biofuels: From pond scum to Jet Fuel (Oregon: Uni of S. ex RenewableEnergy.com) pp 2



## Conclusions

FAOI-1-induced changes in the morphology of *Schizocytium*. Decreased forward scatter and increased side scatter suggest cell death, however the changes are the consequence of a lipid morphology, but the cells are viable.

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** gerik@brc.tamus.edu; lt-wilson@aesrg.tamu.edu; JMGould@ag.tamu.edu; JALa...  
**CC:** JSvetlik@ag.tamu.edu; bkwest@tamu.edu; RVAvant.EXTERNAL.Internet; DKLunt...  
**Date:** 2/8/2010 4:50 PM  
**Subject:** NSF Request: Energy for Sustainability

All:

I am taking the opportunity to send forward this message from Theresa Maldonado reminder that there are two windows for submission to this NSF program. The deadline for the current window is March 3rd. Mike and I would be more than happy to assist PIs to structure their proposals.

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501026&org=NSF&sel\\_org=NSF&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026&org=NSF&sel_org=NSF&from=fund)

Scroll to the bottom and click on the link for current awards under this program. The list will give you an idea of what is being funded.

Of Particular interest: Biomass Conversion, Biofuels & Bioenergy. Photosynthetic processes used by plants or algae use sunlight to convert atmospheric CO<sub>2</sub> to carbohydrates, lipids, or hydrocarbons which can be processed into transportation fuels. Innovative approaches for the conversion of lignocellulosic biomass to fuels is an interest area of this program, particularly for "third generation" biofuels beyond cellulosic ethanol. Many biological processes for energy production have low volumetric productivity. Engineering approaches for intensification of bioenergy processes is an interest area of this program. Specific areas of interest include: microbial fuel cells for direct production of electricity from renewable carbon sources; process-based, scalable approaches for the biological or bio-mimetic generation of electricity directly from sunlight; hydrogen production from autotrophic and heterotrophic microorganisms; hydrocarbons and lipids from autotrophic or heterotrophic microorganisms.

Bill

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Bill F. McCutchen, Ph.D.

Associate Director

Texas AgriLife Research

Texas A&M University System

113 Jack K. Williams Administration Building

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979-845-8488 Tel

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Scroll to the bottom and click on the link for current awards under this program. The list will give you an idea of what is being funded.

Theresa

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Theresa A. Maldonado, Ph.D., P.E.

Assoc. Vice Chancellor for Research

Texas A&M University System

Director, Energy Engineering Institute

Texas Engineering Experiment Station



Physical address: 200 Technology Way, Suite 2043; College Station, TX  
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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu  
**Date:** 9/29/2009 8:32 AM  
**Subject:** Out of Office AutoReply: Accepted: To Discuss RD program and FTO questions

I will be out of the office September 29-30th. In case of emergency please contact Jackie at 979 845 7980.

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu  
**Date:** 10/28/2009 5:11 PM  
**Subject:** Out of Office AutoReply: CV

I will be out of the office until Monday, November 2nd. I will be checking my e-mail intermittently while I'm out, but please contact contact Jackie at 979 845 7980.



*Agri*LIFE **EXTENSION**

Texas A&M System

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu  
**CC:** CNessler.EXTERNAL.Internet  
**Date:** 1/15/2010 6:54 PM  
**Subject:** Peanuts

David,

Craig visited with Cawthon late this afternoon per Tillman. Don is on board with proposed plan - and supportive. Might be good if you call Don and then Charles to elaborate and lay the groundwork, i.e. don't wait on me.

I visit with Don and Charles on a fairly regular basis and will catch up later. I suggest that you also discuss with Don how much support (\$\$) might need to be provided to Stephenville to make things whole and functional over the next 3-5 yrs. This might include additional (and moderate) RD expenditures for technicians, equipment, repairs, etc.

Thanks,

Bill

## **Paul F. Bryan**

### **EDUCATION:**

1985 - 1986: **Post-Doc in Applied Thermodynamics**, Ecole des Mines, Paris, France.  
Development of advanced thermodynamic modelling software.

1985: **Ph.D. Chemical Engineering**, University of California, Berkeley, CA.  
Dissertation: *Representation of Thermodynamic Properties in Separation Calculations Using Local Approximations* (with J. M. Prausnitz and E. A. Grens).

1980: **B.S. Chemical Engineering**, Pennsylvania State University, University Park, PA.  
Graduated with Highest Honors.

### **EMPLOYMENT HISTORY:**

2006 - Present **Vice President – Technology**, Chevron Technology Ventures, Biofuels Business Unit, Richmond, CA. Responsible for management of entire R&D Program in second-generation biofuels. Portfolio includes collaborative R&D with Government Labs, Academia, and for-profit companies large and small. Portfolio covers feedstock development, biological and thermochemical conversion technology, emerging / novel conversion technology, catalytic processing, and biofuel-product development.

2005 - 2006 **Alliance Manager**, Chevron Energy Technol. Co., Perth, WA, Australia  
Responsible for development of the Western Australian Alliance for Advanced Energy Solutions, a \$5 million per year (target) collaboration with CSIRO, Curtin Univ., and The Univ. of Western Australia including legal, finance, contracts, and facilitating collaboration between all Chevron Technology Focus areas and >300 senior researchers in Australia. Portfolio included advanced technologies for development of oil, gas, and renewable energy.

2002 - 2005: **Team Leader**, ChevronTexaco Energy Technol. Co., Richmond, CA  
Responsible for management and technical contributions in the area of separation technology, process R&D, reaction engineering, thermodynamics, alternate fuels, and industry / university / government collaborative research.

1999 - 2002: **Senior Lecturer and Station Director**, MIT School of Chem. Eng. Practice,  
Responsible for managing industrial internship projects for MIT graduate students at Cargill, GE Plastics, General Mills, and Cabot Corp. Worked with company clients to develop projects; supervise, instruct, and evaluate students.

1996 - 1999.: **Research Scientist**, Union Carbide Corp., South Charleston, WV.  
Responsible for R&D and internal consulting in separations technology, including membranes, distillation, adsorption, and filtration. Liaison to collaborative membrane R&D project with Pall, Coors, and Bechtel-Jacobs (Oak Ridge K-25 Site).

1991 - 1996: **Program Area Leader**, Chevron Research & Technology Co., Richmond, CA.  
Responsible for all research, both in-house and external, on separation process technology for chemicals, refining, and oil & gas production.

1989 - 1991: **Senior Research Engineer**, Chevron Research & Technology Co., Richmond, CA.  
Member of AROMAX® development team, responsible for pilot studies, plant start-up, novel reactor development, process modelling, and second-generation catalyst development.

1986 - 1988: **Asst. Professor of Chem. Engineering.**, Colorado School of Mines, Golden, CO  
Responsible for teaching graduate courses on thermodynamics and applications of artificial intelligence, proposing and supervising graduate research in separation process technology,

physical property measurements, and computer applications.

**AWARDS, RECOGNITIONS & PROFESSIONAL ACTIVITIES:**

Chemical Engineering Dept. Advisory Boards: USC (Chair, 2004-Present); Penn State (Vice-Chair, 2008-Present); UC-Berkeley (College of Chemistry) (Member, 2007-Present)  
National Academies' *Chemical Sciences Roundtable* (Member, 2006-Present)  
Director, North American Membrane Society (2002-2005).  
Chair (2002) & Vice-Chair (2000), Gordon Res. Conf.: *Membranes: Materials & Processes*.  
Editorial Advisory Board, *Separation & Purification Reviews* (2002-Present).  
Editorial Advisory Board, *Separation & Purification Methods* (2000-2002).  
Division Chair (2001), First Vice-Chair (2000), Second Vice-Chair (1999), Director (1995-1998 1998), and Gerhold Award Comm. Chair (2002-Present) – AIChE Separations Division.  
Chair of CCR "Vision 2020" Proc, Science and Eng. Technology Task Group (1997-1999).  
Conference Co-Chair, CCR *New Initiatives in Chemical Engineering Conference on Separations*, Marco Island, FL, 1997.  
Editorial Advisory Board, *I&EC Research* (1996-1998).  
Member, Gas Processors Association *Research Steering Committee* (1991-1999).

**SELECTED PUBLICATIONS & PATENTS:**

- Bryan, P. F., "Removal of Propylene from Fuel-Grade Propane," *Separation & Purification Reviews*, 2005.
- W. J. Bartley, et al., "Processes for preparing oxygenates," WO # 0,107,393 to Union Carbide Corp., Feb.1, 2002.
- J. F. Miller, et al., "Membrane separation process for metal complex catalysts," US Patent #6,252,123 to Union Carbide Corp., June 26, 2001.
- Keller, G. E. and P. F. Bryan, "Process Engineering: Moving in New Directions," *Chem. Eng. Progress*, 96(1), 41-50, January 2000.
- J. V. Heyse, et al., "Low-sulfur reforming process," US Patent # 5,863,418, to Chevron Chem. Co., Jan. 26, 1999.
- Sweeney, W. A. and P. F. Bryan, "BTX Processing," in *Kirk-Othmer Encyclopedia of Chemical Technology, 4th Edition, Volume 4*, John Wiley, New York, New York, 590-604, 1992.

**SELECTED PRESENTATIONS:**

- Bryan, P.F., "Biofuels Feedstock, Price, and *The New Energy Equation*," Invited Talk, AIChE Management Conference, Houston, Texas, April 2007.
- Bryan, P. F., "Biofuels R&D Directions in the Energy Industry," Invited Lecture, Renewable Energy Symposium, University of Western Australia, Perth, WA, March 2006.
- Bryan, P.F., "Future Trends in Chemical Process Design and Engineering," Invited Plenary, 50th Canadian Chemical Engineering Conference, Montreal, Quebec, Canada, October 17, 2000.
- Bryan, P. F., J. F. Miller, and G. E. Keller II, "Scale-up Issues in Membrane Applications for Industrial Separations," Membrane Technology Planning Conf., Newton, Massachusetts, October 27-29, 1997.
- Bryan, P. F., "New Membranes for Industrial Applications: An End-User's Perspective," Invited Lecture, Petroleum Seminar Series, Argonne National Laboratory, Argonne, Illinois, April 10, 1997.
- Bryan, P. F. (speaker), D. J. Edlund, and C. B. Frost, "Hydrogen Recovery and Purification Using Dense Metal Membranes," 7th Annual U.S. Hydrogen Meeting, Alexandria, Virginia, April 1996.
- Bryan, P. F. (co-speaker) and R. M. Hix (co-speaker), "Development of a Process for the Removal of Diamondoids from Natural Gas," Engineering Foundation Conference on Separations, Snowbird, Utah, July 1995.
- Bryan, P. F. (speaker) and R. K. Denton, "New Membranes for Industrial Separation Applications: An End-User's Perspective," North American Membrane Society, Seventh Annual Meeting, Portland, Oregon, May 23, 1995.

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu  
**CC:** BlakePetty@tamu.edu  
**Date:** 9/28/2009 1:11 PM  
**Subject:** Phillips

David,

Ever get in contact with Tim Phillips and are we writing a grant? Apparently there is some confusion. Blake Petty informed me and can provide further background.

Bill



**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** gerik@brc.tamus.edu; JMGould@ag.tamu.edu; JALandivar@ag.tamu.edu; JWalke...  
**CC:** DGILLILA@ag.tamu.edu; RVAvant.EXTERNAL.Internet; DKLunt.EXTERNAL.Interne...  
**Date:** 12/15/2009 4:31 PM  
**Subject:** Plant Feedstock Genomics for Bioenergy: A Joint Research Funding Opportunity Announcement USDA, DOE  
**Attachments:** FOA\_Notice\_DE-FOA-0000223.pdf

Very quick turnaround for this RFA

Plant Feedstock Genomics for Bioenergy: A Joint Research Funding Opportunity Announcement USDA, DOE

Funding Opportunity Number:

DE-FOA-0000223

Opportunity Category:

Discretionary

Posted Date:

Dec 11, 2009

Creation Date:

Dec 11, 2009

Original Closing Date for Applications:

Feb 18, 2010

Preapplication Due Date: 01/04/2010, 4:30 PM Eastern Time

(Preapplications are Required)

<http://www.grants.gov/search/search.do?mode=VIEW&oppld=50639>

The U.S. Department of Energy's Office of Science, Office of Biological and Environmental Research (OBER), and the U.S. Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA), hereby announce their interest in receiving applications for genomics-based research that will lead to the improved use of biomass and plant feedstocks for the production of fuels such as ethanol or renewable chemical feedstocks. Specifically, applications are sought for fundamental research on plants that will improve biomass characteristics, biomass yield, or sustainability. Systems biology

approaches to identify genetic indicators enabling plants to be efficiently bred or manipulated, or research that yields fundamental knowledge of the structure, function and organization of plant genomes leading to improved feedstock characterization and sustainability are also encouraged.

Link to Full Announcement

FedConnect <<https://www.fedconnect.net>>

FOA attached as pdf.

Mike

---

Mike Cronan, PE (inactive)

Assistant Director for Strategic Opportunities

Energy Engineering Institute

Texas Engineering Experiment Station

1470 William D. Fitch Pkwy

College Station, TX 77845

979-458-7659

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** <charliejohnson@neo.tamu.edu>, "Mullet, John E." <jmullet@tamu.edu>, <pk...>  
**CC:** "Nessler, Craig" <cnessler@tamu.edu>, "Lunt, David" <d-lunt@tamu.edu>, "...>  
**Date:** 10/3/2010 10:07 AM  
**Subject:** Plant Genome Research Program

---

From: Mike Cronan  
To: McCutchen, Bill  
Cc: 'Lucy Deckard'  
Sent: Sun Oct 03 09:56:18 2010  
Subject: Plant Genome Research Program

> 'Mike Cronan'

>

Plant Genome Research Program

<http://www.nsf.gov/pubs/2011/nsf11500/nsf11500.htm>

Due Jan. 28

Up to \$20 million is available for FY 2011 new awards, pending availability of funds.

Four areas of opportunity will be offered as components of the PGRP in Fiscal Year 2011: (1) Genome-Enabled Plant Research (GEPR) awards to tackle major unanswered questions in plant biology on a genome-wide scale; (2) Transferring Research from Model Systems (TRMS) awards to transfer findings made using model systems to plants of economic importance; (3) Tools and Resources for Plant Genome Research (TRPGR) awards to support development of novel tools to enable discovery in plant biology and (4) Improving Plant Genome Annotation (IPGA) awards to improve existing tools or develop new tools for improved annotation of the genomes of plants of economic importance.

Mike

---

Mike Cronan, PE (Texas 063512, inactive)

mailto:

Academic Research Funding Strategies, LLC

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r>

979-693-8613 (H)

979-229-8009 (voice, text, email:

## **PROJECT NARRATIVE**

The proposed research will serve to confirm the molecular mechanism, efficacy and safety of a montmorillonite clay (NSP) in animal models and humans at high risk for aflatoxicosis and hepatocellular carcinoma. It is postulated that NSP will significantly reduce exposure to the aflatoxins from contaminated foods by tightly binding these poisons in the gastrointestinal tract and decreasing their bioavailability. The findings from this research will be of direct relevance to rural and border communities and developing countries, where the poor are more frequently exposed to aflatoxins, and the incidence of aflatoxin exposure and primary liver cancer is often elevated. Since the use of clays in the diet in developing countries is commonplace and culturally acceptable, the preferred delivery of a therapeutic dose of NSP clay may

## **PROJECT NARRATIVE**

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**PROJECT SUMMARY**

**PROJECT SUMMARY**



**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu; JALandivar@ag.tamu.edu; ahelms@dsmail.tamu.e...  
**CC:** JASlovacek.EXTERNAL.Internet; RVAvant.EXTERNAL.Internet  
**Date:** 1/26/2009 12:01 PM  
**Subject:** Re: #

Juan and David

Do you have Monsanto's John Parcels card / number?

Bill

----- Original Message -----

From: Helms, Adam  
To: McCutchen, Bill  
Cc: Avant, Bob  
Sent: Mon Jan 26 09:49:22 2009  
Subject: RE: #

I have Roy Cantrell, Doug Rushing and Janice Persons, but no John Purcell

-----Original Message-----

From: McCutchen, Bill [mailto:bmccutchen@tamu.edu]  
Sent: Friday, January 23, 2009 7:50 PM  
To: ahelms@tamu.edu  
Cc: Avant, Bob  
Subject: #

Do you have John Purcell's telephone number? I can't find his card.

Bill

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** JEMullet.EXTERNAL.Internet; WLRooney.EXTERNAL.Internet; RVAvant.EXTERNAL...  
**CC:** GDRReinhart.EXTERNAL.Internet; DBaltensperger@ag.tamu.edu; RDLacewell.EXT...  
**Date:** 2/27/2009 9:53 PM  
**Subject:** Re: 4th Center

I just want to reiterate, this white paper is very important and time is short. We need to stress how the proposed fourth Center will compliment existing 3 Centers and other institutes. We need to stress how academic, government and corporate entities can/will work together to address biofuels (and bioproducts) issues through collaborative RD.

Please consider a very Rough DRAFT. Would also be good to review mission of other 3 Centers and incorporate our strengths as appropriate.

Bob, should we include Searcy, Riskowski and team as well?

Thanks,

Bill  
We need your input ASAP.

---

From: Avant, Bob  
To: Bill Rooney ; 'John Mullet'  
Cc: Bill McCutchen (bmccutchen@tamu.edu) ; Larry Meyers ; r-lacewell@tamu.edu ; David Baltensperger (dbaltensperger@ag.tamu.edu)  
Sent: Fri Feb 27 14:12:27 2009  
Subject: 4th Center

Bill McCutchen and I had an excellent meeting with DOE in DC today. There are several potential opportunities for a 4th Center and to increase funding of the Edwards Project. Attached is the latest draft for the 4th Center paper. Would you please review and make comments. We need a quick turn around to capture Stimulus funds.

Bob Avant

Program Director

Texas AgriLife Research

979/845-2908

(Cell)

bavant@tamu.edu

<http://agbioenergy.tamu.edu>

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** JDixon@ag.tamu.edu; RVAvant.EXTERNAL.Internet; YDeng@ag.tamu.edu; Kolomi...  
**CC:** JSlovacek.EXTERNAL.Internet  
**Date:** 8/30/2009 10:36 AM  
**Subject:** Re: aflatoxin amelioration cancer proposal

Jackie,

Can you arrange for a telecon with this group early this week if at all possible?

Kendra, can you send the link to Cancer Initiative RFP to this group?

Thanks,

Bill

----- Original Message -----

From: Seth C Murray <smurray@ag.tamu.edu>  
To: Baltensperger, David; Joseph M Awika <JAwika@ag.tamu.edu>; Mikhailo Kolomiets <Kolomiets@ag.tamu.edu>; Youjun Deng <YDeng@ag.tamu.edu>; Avant, Bob; McCutchen, Bill; Joe Dixon <j-dixon@tamu.edu>  
Sent: Fri Aug 28 17:15:43 2009  
Subject: Re: aflatoxin amelioration cancer proposal

I think this would be extremely useful to meet about. Especially given that aflatoxin levels in corn are as bad as, if not worse than last year and this is a huge potential source of carcinogens in the food and feed stream.

Thanks,

Seth

>>> David Baltensperger 08/28/09 3:55 PM >>>  
Bill,

Based on the sorghum as cancer prevention thought process, I think we need a coordinated call on cancer prevention by controlling aflatoxin --

Seems like companies that might be interested would include all the big grain companies and several food companies.

Check with David Gibson from corn and Shelly nut from peanuts for support.

Perhaps you could coordinate a conference call to get this group up to speed as they have not hear your ideas. Thanks.

David D. Baltensperger  
Professor and Head  
Soil and Crop Sciences  
Texas A&M University  
2474 TAMU  
College Station, Texas 77843-2474

Phone 979-845-3041  
Fax 979-845-0456  
Email [dbaltensperger@ag.tamu.edu](mailto:dbaltensperger@ag.tamu.edu)

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** yjd@tamu.edu; JDixon@ag.tamu.edu; awika@tamu.edu; SMurray@ag.tamu.edu; K...  
**CC:** WDugas.EXTERNAL.Internet; RVAvant.EXTERNAL.Internet; ahelms@dsmail.tamu....  
**Date:** 9/7/2009 6:44 PM  
**Subject:** Re: Aflotoxin and Cancer

Joseph,

Completely agree. This information (and RD ideas) were kindly provide by Tim Phillips as a "starting point" to potentially "rally" additional proposed RD and objectives from this group. And yes, we need to "Texanise".

I am only suggesting (for those that are interested) that we build from this NIH proposal (as a central theme point) by Tim to further expand and leverage the proposed RD to address aflatoxin and cancer RD initiatives.

Bill

---

From: Joseph M Awika <JAwika@ag.tamu.edu>  
To: Mikhailo Kolomiets <Kolomiets@ag.tamu.edu>; Seth C Murray <SMurray@ag.tamu.edu>; Joseph M Awika <awika@tamu.edu>; McCutchen, Bill; Joe Dixon <j-dixon@tamu.edu>; Youjun Deng <yjd@tamu.edu>  
Cc: Baltensperger, David; tphillips@cvm.tamu.edu <tphillips@cvm.tamu.edu>; Helms, Adam; Avant, Bob; Dugas, William  
Sent: Mon Sep 07 18:35:05 2009  
Subject: Re: Aflotoxin and Cancer

I think it is a good template, but needs to be 'Americanized'..more specifically, Texas targeted for this particular RFP. Thus the cancer cluster in S. TX will need emphasis; use of corn and food systems relevant to TX (corn tortillas, etc) should be considered. Could emphasize animal models in early stages followed by some human trials within TX later on? Human trials outside TX will need very strong justification.

Also, at our last meeting we were not sure how to fit corn breeding into the system; suggestions are welcome.

ja

>>> "McCutchen, Bill" <bmccutchen@tamu.edu> 9/7/2009 10:16 AM >>>

All,

Here is the information that Tim Phillips kindly provided as a potential catalyst to develop a CPIRT Cancer Proposal per aflotoxin. Per our discussion this information might be used a central point to "build" up-stream and/or downstream activities for the cancer initiative RFP. A match from industry may be tough on such short notice, but I believe that internal matching funds can be used as appropriate (salary, etc.). Time is short and I believe the proposal(s) would be due OCT 8th. Please refer to the CPRIT RFP for details.

Let David, Adam, Tim and/or me know if you want to proceed and how we might be able to help and coalesce a proposal. David please add.

Thanks,

Bill

--

Bill F. McCutchen, Ph.D.

Associate Director

Texas AgriLife Research

Texas A&M University System

113 Jack K. Williams Administration Building

2142 TAMU College Station, TX 77843-2142

979-845-8488 Tel

979-458-4765 Fax

[bmccutchen@tamu.edu](mailto:bmccutchen@tamu.edu)

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** YDeng@ag.tamu.edu  
**CC:** DBaltensperger@ag.tamu.edu  
**Date:** 9/8/2009 4:26 PM  
**Subject:** Re: Aflotoxin and Cancer

David and Youjen

Thanks Youjen. We (you all) need to proceed as time is short. This needs to be led by you all and team. Can you corral? I think we need one proposal with Phillips. Tim will be supportive just update him when he returns from travel.

Bill

Bill

----- Original Message -----

From: Youjun Deng <YDeng@ag.tamu.edu>  
To: McCutchen, Bill  
Cc: Baltensperger, David  
Sent: Tue Sep 08 15:58:53 2009  
Subject: Re: Aflotoxin and Cancer

Dr. McCutchen,

To "Texanise" the proposal(s), we can use two good bentonites that we have found in Gonzales, Texas for the experiment. I fully agree the technical approaches that Dr. Tim Phillips has proposed, but feel that we need more experiments to study what is going on among aflatoxin, the clay, and other compounds inside the digestion system. For that part, we will need include a molecular biologist to study the biological mechanism.

I intend to include our Texas clays in the study but do not know if we should have a joint proposal with Tim Phillips or a separated one.

Youjun

Youjun Deng, Ph.D.  
Assistant Professor of Soil Clay Mineralogy  
Department of Soil and Crop Sciences  
Texas AgriLife  
Texas A&M University  
College Station, TX 77843-2474  
Tel: (979)-862-8476  
Fax: (979)-845-0456  
e-mail: yjd@tamu.edu

>>> "McCutchen, Bill" <bmccutchen@tamu.edu> 9/7/2009 6:44 PM >>>  
Joseph,

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Bill

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From: Joseph M Awika <JAwika@ag.tamu.edu>  
To: Mikhailo Kolomiets <Kolomiets@ag.tamu.edu>; Seth C Murray <SMurray@ag.tamu.edu>; Joseph M Awika <awika@tamu.edu>; McCutchen, Bill; Joe Dixon <j-dixon@tamu.edu>; Youjun Deng <yjd@tamu.edu>  
Cc: Baltensperger, David; tphillips@cvm.tamu.edu <tphillips@cvm.tamu.edu>; Helms, Adam; Avant, Bob; Dugas, William  
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Let David, Adam, Tim and/or me know if you want to proceed and how we might be able to help and coalesce a proposal. David please add.



Thanks,

Bill

--

Bill F. McCutchen, Ph.D.

Associate Director

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[bmccutchen@tamu.edu](mailto:bmccutchen@tamu.edu)

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** TMiller@ag.tamu.edu; RVAvant.EXTERNAL.Internet; DBaltensperger@ag.tamu.e...  
**CC:** DKLunt.EXTERNAL.Internet; CNessler.EXTERNAL.Internet  
**Date:** 3/31/2010 9:46 PM  
**Subject:** Re: AFRI Feedstock Development

Thanks David. Please know that we have had significant and positive discussions with the VPR of NMSU. We have very good relations with Dr. Vimal per NAABB consortium, and they are great partners - they are also a minority-serving institute. Based on initial conversations they would be willing to lead an algae and oilseeds with AgriLife and TAMUS.

As you know we can't be leads on a second response for the Bioenergy RFA, but if we team with NMSU we WILL BE very significant partners. In the interim, yes it is good to explore the opportunities and potential of teaming with other partners (and gaining intel on potential competitors) as your note below outlines. I just wanted you and Travis to be aware of ongoing discussions.

Please give me a ring if you have questions or concerns.

Bill

----- Original Message -----

From: David Baltensperger <DBaltensperger@ag.tamu.edu>  
To: Avant, Bob; McCutchen, Bill; Travis Miller <td-miller@tamu.edu>  
Cc: Diane L Rowland <DLRowland@ag.tamu.edu>; Robert W. Duncan <RDuncan@ag.tamu.edu>; Steve Hague <SHague@ag.tamu.edu>; Paul A Baumann <p-baumann@tamu.edu>; DICK.AULD@ttu.edu <DICK.AULD@ttu.edu>  
Sent: Wed Mar 31 12:58:42 2010  
Subject: Fw: AFRI Feedstock Development

Bob and Bill,

I will be hooking up to explore possibilities with this group.

David Baltensperger  
Professor and Head  
Soil and Crop Sciences  
Texas A&M University  
2472 TAMU  
College Station  
Texas 77843-2474

979-845-3041

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** RVAvant.EXTERNAL.Internet; BBEAN@ag.tamu.edu; JSWEETEN@ag.tamu.edu  
**CC:** JHurley@tamu.edu; PLSchuerman.EXTERNAL.Internet; DKLunt.EXTERNAL.Interne...  
**Date:** 4/2/2010 4:02 AM  
**Subject:** Re: AFRI project

Brent and John,

I woke up early and couldn't go back to sleep; so this is a good time to answer emails.

First, I want to say Thank You. This type of open communication is exactly what we need as we develop our overall AgriLife strategy. We will certainly not discourage you from making linkages with outside partnerships, but please know that we believe it is prudent to be somewhat careful/cautious and save our best ideas and RD and E for the AgriLife-led proposal.

Also please know that we are likely to team with OkSt, Noble Foundation, Hawaii and other key faculty from USDA and other institutes that further/better our chances of landing a Southcentral bioenergy hub. We believe we are building a strong SC consortium, and we will discuss in more detail during Monday's teleconference.

Nevertheless and as long as KSU, Nebraska and CSU know that we are leading a Southcentral approach for Bioenergy and that any interactions need to be a two-way street, we would be supportive. In my opinion, any agreement (and perhaps a formal agreement is prudent, Peter/Janie your advice?) with this consortium needs to be well documented clearly defined and benefit our team/consortium just as much or more than their team. Bottom-line is that we will be in competition with this consortium for funds for a Bioenergy hub even though our regions are different. In other words, their data ARE our data and vice versa if we collaborate and it might help both teams if we can provide letters of support, political influence, etc. if they can agree to such equal "terms".

I hope this helps and we can discuss pros and cons as we proceed.

Thanks again!

Bill

---

From: John Sweeten <j-sweeten@tamu.edu>  
To: Brent Bean <b-bean@tamu.edu>; Avant, Bob  
Cc: Baltensperger, David; Brent Auvermann <b-auvermann@tamu.edu>; McCutchen, Bill; Gibbs, Pete; Travis Miller <td-miller@tamu.edu>  
Sent: Thu Apr 01 20:44:58 2010  
Subject: Re: AFRI project

Will add that capability exists to process the produced crop biomass into coarse, fine ground, or pulevriized biofuels for analysis and use in thermochemical or fermentation conversion platforms. Solar drying capability will exist within weeks /months also along with calorimetry as you know. We're grateful for PUF funding and Bioenergy Initiative grant funding from TX AgriLife Research over last 3 years that helped provide this capability at Amarillo/Bushland and to an extent at Vernon also.. .. jms

John M. Sweeten, Ph.D., P.E.  
Resident Director & Professor  
Texas AgriLife Research at Amarillo & Vernon  
6500 Amarillo Blvd., West  
Amarillo, TX 79106-1796

Phone (806) 677-5600  
Fax (806) 677-5644

>>> Brent Bean 4/1/2010 2:49 PM >>>

Bob,

Per Dr. McCutchen's request to keep you informed, I wanted to let you know I have been approached to work with a group from KSU, NE and CSU on an AFRI project for the Southern High Plains. This project would be for the Sustainable Bioenergy program. Thus far we have only had a brief teleconference concerning the proposal, but the idea would be to examine crops (sorghum and grass) for cellulosic ethanol production as well as oil seed crops. The initiator of this project is Scott Staggenborg, crops physiologist from KSU. Those that have been approached thus far to join the team are Drew Lyon-agronomist with NE, and Neal Hanson, soil scientist and cropping systems specialist with CSU. I believe others from KSU and CSU have also been approached. They have asked me to provide suggestions on others from the A&M system who might be interested and could add to the team.

As you are aware, I have a very active sorghum project (forage sorghum, energy cane and sweet sorghum). What you may not be aware of is that I am also leading a project that is examining six warm season grasses, including switchgrass, for biomass production under dryland, limited, and full irrigation. This grass project will be completed in 2010 (funded through Cropping Systems). Our main goal has been to examine the water use efficiency of each grass as well as their nutritive value under the three watering regimes. In the future, these grass plots would be ideal for a cellulosic ethanol project. The plots are fairly large at 30 by 70 ft, so they could be split to examine various treatments such as nutrient use, harvest timing, etc..

Please let me know if you have any questions.

Thanks.

Brent

Brent Bean  
Professor & Extension Agronomist  
Texas AgriLife Research and Extension Center  
6500 Amarillo Blvd. West  
Amarillo, TX 79106  
Ph: 806-677-5600  
email: bbean@agtamu.edu

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** JSlovacek.EXTERNAL.Internet;  
**CC:** JEMullet.EXTERNAL.Internet; WLRooney.EXTERNAL.Internet; DBaltensperger@a...  
**Date:** 7/23/2009 7:01 PM  
**Subject:** Re: Agenda for August 26 27th

Virgil,

Thanks for inquiry.

Please be assured that we are working on an tentative agenda and lining up personnel for your upcoming visit. Jackie is compiling.

Right now we only have "on-campus" faculty, but it might be a good idea if you agree to have off-campus PIs join in person or at least by phone (knowing this is a big commitment of time if they travel to CS); but I wanted to check - just in case you are visiting them separately.

Jackie will try to get you a draft in the next week or two if that's OK.

Thanks,  
Bill

---

From: Virgil Smail  
To: McCutchen, Bill; Slovacek, Jackie  
Sent: Thu Jul 23 13:53:18 2009  
Subject: Agenda for August 26 27th

Greetings, I just got back from the US Grains Council and was wondering how we were coming with an agenda for our meeting in August. Thanks. Virgil

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** JSlovacek.EXTERNAL.Internet;  
**CC:** RDLacewell.EXTERNAL.Internet; RVAvant.EXTERNAL.Internet; JEMullet.EXTERN...  
**Date:** 7/29/2009 10:04 AM  
**Subject:** Re: Agenda for August 26 27th

Thanks Virgil. I will ask Jackie to arrange time with Bob, Ron and me at the same time if that's OK.

Thanks,

Bill

---

From: Virgil Smail  
To: McCutchen, Bill; Slovacek, Jackie  
Cc: Tim Lust >; Baltensperger, David; wlr@tamu.edu <wlr@tamu.edu>;  
Mullet, John E.  
Sent: Wed Jul 29 09:28:24 2009  
Subject: RE: Agenda for August 26 27th

The agenda as prepared looks good. We would also like to have more time to meet with Bob Avant and you about sorghum funding opportunities. Also if we could get some time with Ron Lacewell to discuss appropriation issues that would be appreciated. We will be setting up a meeting on the morning of the 27th to meet with Dan Upchurch, USDA/ARS, if possible. Thanks for your help in setting up this visit.  
Virgil

From: McCutchen, Bill [mailto:bmccutchen@tamu.edu]  
Sent: Wednesday, July 29, 2009 9:00 AM  
To: Slovacek, Jackie; Virgil Smail  
Cc: Tim Lust; Baltensperger, David; wlr@tamu.edu; Mullet, John E.  
Subject: RE: Agenda for August 26 27th

Please send us your comments when you get time.

--

Bill F. McCutchen, Ph.D.

Associate Director

Texas AgriLife Research

Texas A&M University System

113 Jack K. Williams Administration Building

2142 TAMU College Station, TX 77843-2142

979-845-8488 Tel

979-458-4765 Fax

bmccutchen@tamu.edu

---

From: Slovacek, Jackie  
Sent: Tuesday, July 28, 2009 11:32 AM  
To: McCutchen, Bill;  
Cc: ' ; Baltensperger, David; 'wlr@tamu.edu'; Mullet, John E.  
Subject: RE: Agenda for August 26 27th

Virgil and Tim:

Attached is a DRAFT agenda for your visit on August 26th.

Jackie

Jackie Slovacek  
Assistant to the Associate Director  
Texas AgriLife Research  
113 Jack K Williams Administration Bldg  
College Station, Texas 77843-2142

979.845.7980

979.458.4765 Fax

---

From: McCutchen, Bill  
Sent: Thursday, July 23, 2009 7:01 PM  
To: Slovacek, Jackie  
Cc: ; Baltensperger, David; 'wlr@tamu.edu'; Mullet, John E.  
Subject: Re: Agenda for August 26 27th

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Thanks,  
Bill

---

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Sent: Thu Jul 23 13:53:18 2009  
Subject: Agenda for August 26 27th

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** "Helms, Adam" <ahelms@tamu.edu>, <jmoore@ag.tamu.edu>, "Avant, Bob" <bav...>  
**CC:** "Nessler, Craig" <cnessler@tamu.edu>, "Lunt, David" <d-lunt@tamu.edu>, "...>  
**Date:** 10/1/2010 1:30 PM  
**Subject:** Re: AgriLife Wheat Program Executive Summary

Excellent job by all to include quick turn around by faculty.

Have a good weekend. I am headed out to conduct dove reconnaissance mission with my old man and Pete.

Bill

---

From: Helms, Adam  
To: McCutchen, Bill; Jaroy Moore <jmoore@ag.tamu.edu>; Avant, Bob; Steve Brown <rsbrown@ag.tamu.edu>; Baltensperger, David; Travis Miller <td-miller@tamu.edu>; John Sweeten <jsweeten@tamu.edu>  
Sent: Fri Oct 01 13:26:10 2010  
Subject: FW: AgriLife Wheat Program Executive Summary

See note below from Mark Turner

Adam Helms

AgriLife Research Corporate Relations

(mobile)

979-458-2677 (office)

---

From: Mark Turner  
Sent: Friday, October 01, 2010 1:15 PM  
To: Helms, Adam  
Cc: Mike Gilbert  
Subject: Re: AgriLife Wheat Program Executive Summary

Adam,

Very nice document. Thanks. I'll circulate it internally to my colleagues as you suggest. Have a nice weekend.

Best Regards

Mark Turner

---

Bayer CropScience LP  
Business Development  
2 T.W. Alexander Drive  
Research Triangle Park, NC 27709  
Phone: 919-549-2538  
Fax: 919-549-2850  
E-mail:  
Web: <http://www.bayercropscience.com>

"Helms, Adam" <ahelms@tamu.edu>

10/01/2010 02:02 PM

To

"Mike Gilbert" , "Turner, Mark" <

cc

"Steve Brown" <rsbrown@ag.tamu.edu>, "McCutchen, Bill" <bmcutchen@tamu.edu>, "Avant, Bob" <bavant@tamu.edu>, "Baltensperger, David" <dbaltensperger@ag.tamu.edu>, "Travis Miller" <td-miller@tamu.edu>, "John Sweeten" <j-sweeten@tamu.edu>

Subject

AgriLife Wheat Program Executive Summary

Mike & Mark,

Good Afternoon. Attached is an executive summary outlining various wheat improvement programs at Texas AgriLife Research which are ongoing across Texas that have significant impacts beyond our border for producers, industry and consumers. Please add this confidential executive summary to the presentations sent earlier this week and disperse among Bayer CropScience as you see fit for internal review. We at AgriLife look forward to a follow-up discussion with you and your team as we explore possible collaborations between our respective institutions.

Feel free to contact us should you have questions or comments concerning this executive summary or the presentations sent earlier this week.

Have a terrific weekend.

Sincerely,

Adam

Adam Helms  
Assistant Director  
Corporate Relations & Bioenergy Program  
Texas AgriLife Research  
Texas A&M University System  
100E Centeq Building A, Research Park  
1500 Research Parkway  
College Station, Texas 77843-2583  
(mobile)  
979-458-2677 (office)  
[attachment "Bayer AgriLife Executive Summary Wheat.pdf" deleted by Mark  
Turner/MJSRN/US/BCS/BAYER]

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---

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu; j-moore@tamu.edu; JALandivar@ag.tamu.edu; JM...  
**CC:** AHelms.EXTERNAL.Internet; SSimpson.EXTERNAL.Internet  
**Date:** 1/4/2009 7:52 PM  
**Subject:** Re: Another BioEnergy DOE deal

Bob,

Excellent information and summary. Let's discuss by phone or stop by tomorrow. Several moving parts.

Thanks,

Bill

---

From: Avant, Bob  
To: Ellison, Mark M.; McCutchen, Bill; Kenneth Hall ; r-lacewell@tamu.edu ; Mike Gould ; (jalandivar@ag.tamu.edu) ; Jaroy Moore ; David Baltensperger (dbaltensperger@ag.tamu.edu)  
Cc: shay-simpson@tamu.edu ; ahelms@tamu.edu  
Sent: Sun Jan 04 15:53:00 2009  
Subject: RE: Another BioEnergy DOE deal

CONFIDENTIAL DRAFT

FOR DISCUSSION ONLY

DO NOT DISTRIBUTE

Attached is the FOA for the third set of DOE pilot plant awards released Dec 22. I have attached the synopsis and full FOA and have provided a brief of my thoughts below.

Here is the bottom line;

1. The FOA is for advanced, transportation biofuels from biomass and algae – not heat/steam.
2. There are two topic areas: Topic Area 1, 1 t per day pilot facility or about 25000 gal/yr and Topic Area 2, a 50 t per day demo facility or about 2,000,000 gal/yr
3. Match for Topic Area 1 is 30% for a \$10-15 million project and for Topic Area 2 is 50 % for a \$30-40 million project
4. 5-12 awards are anticipated, but only one award per submittor
5. To be considered responsive, a proposer must demonstrate that 100 million t per year of the proposed feedstock could be domestically produced. ie 6.7 million acres of sorghum, 20 million acres of switchgrass

6. The proposal must contain: SF 424, project summary, project narrative, resume, budget, letters of commitment, FFRDC budget ( federal lab if any), NEPA submittals, project management plan, lobbying disclosure, technical/financial data, business commercialization plan, pro formas, IP statement and documentation, process flow diagram, GHG live cycle analysis, project execution plan, and federal boiler plate. So it is a very complex proposal that will require significant grant-writing support.

I think that about five proposals could be prepared for Texas as follows:

- project based on Chevron project with Chevron submitting – Topic Area 1 - \$10 million/\$3million match
- project based on Chevron feedstock project and Chevron conversion technology with Chevron and RGVSG submitting – Topic Area 1 - \$10 million/\$3million match
- Sorghum to green gasoline project (Edward DOE) with TEES or Biogy? submitting – Topic Area 1 - \$10 million/\$3million match
- Pecos algae/brine shrimp to liquid fuel with Kent and GA, Kent submitting– Topic Area 1 - \$10 million/\$3million match
- Corpus Christi algae with Topaz and GA with GA submitting– Topic Area 1 – Topic Area 1 - \$10 million/\$3million match
- Terrabon pilot with sorghum feedstock– Topic Area 2 - \$30 million/\$15 million match.

In order for any of these to be competitive, we need the Governor's office to provide a significant amount of the match. If all were selected, the total match would be \$30 million (1-2 projects maybe for Texas). Might be able to leverage Chevron/GA/other private match, but this might be difficult because of economy. I think that Texas has an excellent chance of getting one of these awards based on "informal" feedback I have received.

Here is the suggested path forward:

1. Determine if AgriLife Research, TEES, TAMUS is interested by Jan 16.
2. Determine if there is corporate level interest in any of these by Jan 23.
3. Contact Nat'l Labs by Jan 23.
4. Get Governor's Office buy-in by Jan 30.
5. Contract with professional DOE grant writers (will involve up front funding?) by Jan 23.
6. Submit letter of intent by Feb 20.

7. Submit proposals by Apr 30.

Bob Avant

Program Director

Texas AgriLife Research

979/845-2908

Cell)

bavant@tamu.edu

<http://agbioenergy.tamu.edu>

From: Ellison, Mark M.

Sent: Friday, January 02, 2009 11:10 AM

To: McCutchen, Bill; Avant, Bob

Subject: Another BioEnergy DOE deal

Guys,

Take a look at this. It was brought to my attention on New Years eve. I think the focus is on forest products waste. Is this something we could / should go after?

Mark

From: Sha-Chelle Manning [mailto:

Sent: Friday, January 02, 2009 10:53 AM

To: Ellison, Mark M.

Subject: energy

Matching \$40M cap (match by industry.....) lets talk Monday!!

s

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## Demonstration of Integrated Biorefinery Operations

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### Synopsis

### Full Announcement

<<http://www.grants.gov/search/announce.do;jsessionid=JT6Q2Q0Rfq1W3FMfCstkV51qMLswtN8kLtM4NYTLwhLXTyth3Gcr!1197628742>>

### Application

<<http://www07.grants.gov/search/oppDownloadFormBeanSelector.do?opportunityId=18707&opportunityNumber=DE-PS36-09GO99038&flag2006=true&agencycode=DOE-GFO>>

---

The synopsis for this grant opportunity is detailed below, following this paragraph. This synopsis contains all of the updates to this document that have been posted as of 12/22/2008 . If updates have been made to the opportunity synopsis, update information is provided below the synopsis.

If you would like to receive notifications of changes to the grant opportunity click send me change notification emails

<<http://www.grants.gov/search/fundOppNumSubscriptionCheck.do;jsessionid=JT6Q2Q0Rfq1W3FMfCstkV51qMLswtN8kLtM4NYTLwhLXTyth3Gcr!1197628742?oppNumber=DE-PS36-09GO99038&flag2006=true&agencycode=DOE-GFO>> . The only thing you need to provide for this service is your email address. No other information is requested.

Any inconsistency between the original printed document and the disk or electronic document shall be resolved by giving precedence to the printed document.

Document Type:

Grants Notice

Funding Opportunity Number:



DE-PS36-09GO99038

Opportunity Category:

Discretionary

Posted Date:

Dec 22, 2008

Creation Date:

Dec 22, 2008

Original Closing Date for Applications:

Apr 30, 2009

Current Closing Date for Applications:

Apr 30, 2009

Archive Date:

Jun 30, 2009

Funding Instrument Type:

Cooperative Agreement

Other

Category of Funding Activity:

Energy

Category Explanation:

Expected Number of Awards:

Estimated Total Program Funding:

Award Ceiling:

\$40,000,000

Award Floor:

\$0

CFDA Number(s):

81.087 -- Renewable Energy Research and Development

Cost Sharing or Matching Requirement:

Yes

Eligible Applicants

Unrestricted (i.e., open to any type of entity above), subject to any clarification in text field entitled "Additional Information on Eligibility"

Additional Information on Eligibility:

Agency Name

Golden Field Office

Description

The intent of the FOA will be to select integrated biorefinery projects that have the necessary technical and economic performance data that validates readiness for the next level of scale up. In general, integrated biorefineries employ various combinations of feedstocks and conversion technologies to produce a variety of products, with the main focus on producing biofuels. Co- or by-products can include chemicals (or other materials) and heat and power. For the purpose of this FOA, the term integrated biorefinery is a facility that uses a feedstock meeting the requirements described in this FOA to produce a biofuel as the primary product (as discussed below) and may produce other products including chemicals (or other materials) and heat and power. These integrated biorefineries would produce, as their primary product, a liquid transportation fuel to support meeting the advanced biofuels portion of the Energy Independence and Security Act of 2007 (EISA) Renewable Fuel Standards (RFS) and as further discussed below. DOE encourages applications that propose novel or breakthrough technologies and those that include appropriate collaboration between and among industry, academia, and DOE National Laboratories, FFRDCs (Federally Funded Research and Development Centers) or other government-funded facilities. The FOA has two topic areas described below. Each topic area is related to beneficial use of renewable biomass for the production of liquid transportation biofuel(s) that is/are a replacement for fossil derived liquid transportation fuels. Biobased chemicals and substitutes for petroleum-based feedstocks and products may be included as part of the integrated biorefinery process, provided that they are not the primary product and the application demonstrates that they have credible economics to improve the viability of the proposed biorefinery. An eligible biofuel must be the primary product of the project proposed in the application. The primary product is the commodity to be offered for sale resulting from the operation of the integrated biorefinery that produces the highest total energy output as measured in British Thermal Units. The total energy output is not based on the energy per unit of product but rather the production rate of the product multiplied by its energy per unit. For the purpose of the FOA, the fuels must be liquid at standard temperature and pressure. Applicants should note that the technology for producing heat and power by conventional means is an established technology, and this FOA is designed to address the high technical risks associated primarily with converting biobased feedstocks to biofuels rather than heat and power. Hence, for this FOA, applications that propose refineries producing heat and power as the primary product would be considered non-responsive. Projects may, however, propose producing heat and power using waste streams resulting from a biorefinery if the production of an eligible liquid transportation biofuel is the primary product. Each applicant may submit only one application to this FOA. This FOA contains two topic areas with the purposes of promoting flexibility for the applicants, encouraging competition, allowing for reasonable levels of scale up, and in recognition that the diverse technologies likely to be submitted may require different volumes to be technically feasible. Topic Area 1 Topic Area 1 requests applicants to operate an integrated pilot-scale biorefinery in order to validate the technology. For the purpose of this FOA, a pilot-scale biorefinery project is defined as a facility with a

throughput of no less than one (1) dry tonne of feedstock per day. The proposed biorefinery must be located within the United States and use feedstock from a domestic source. The focus of this topic is to validate the performance of the proposed technology and obtain operational information, so, in lieu of constructing a new facility, the applicant may propose the use of an existing pilot-scale biorefinery. Applicants may propose constructing new facilities or modifications to an existing facility (including adding equipment or modules) where it is economically and technically advantageous to do so. Topic Area 2 Topic Area 2 requests that applicants design, construct and operate an integrated demonstration-scale biorefinery to validate the technology. The proposed demonstration-scale biorefinery must be designed and constructed for a throughput of at least fifty (50) dry tonnes of feedstock per day. The proposed biorefinery must be located within the United States and use feedstock from a domestic source. The objective of this topic is to support demonstration-scale projects that will validate key process metrics and provide continuous operational data at the scale needed to lower the technical risks associated with the development of a viable future commercial plant. The applicant may propose constructing a new facility or making modifications to an existing facility (including adding equipment or modules) where it is both economically and technically advantageous to do so.

Link to Full Announcement

Click here to view the Opportunity <<https://e-center.doe.gov/iips/faopor.nsf/UNID/63F9F91D2EA7865A85257527005EC91A?OpenDocument>>

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Hank Eggink

[hank.eggink@go.doe.gov](mailto:hank.eggink@go.doe.gov)

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Synopsis Modification History

There are currently no modifications for this opportunity.

Top of Form

Bottom of Form

From: Ellison, Mark M. [<mailto:Mark.Ellison@tamu.edu>]

Sent: Friday, January 02, 2009 8:39 AM

To: Sha-Chelle Manning

Subject: Bio Fuels project

Howdy. Please send me any info you have on the forest products waste to energy project we discussed on Wednesday. Happy New Year.

Mark

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** mahmoud.elhalwagi@gmail.com; mth4500@chemail.tamu.edu; krhall@tamu.edu; ...  
**CC:** AHelms.EXTERNAL.Internet; SSimpson.EXTERNAL.Internet; RDLacewell.EXTERNA...  
**Date:** 3/27/2009 8:19 AM  
**Subject:** RE: Austin Energy Executive Summary

Bob and all,

I had time to quickly review last night. Look very compelling.

Bill

--

Bill F. McCutchen, Ph.D.

Associate Director

Texas AgriLife Research

Texas A&M University System

113 Jack K. Williams Administration Building

2142 TAMU College Station, TX 77843-2142

979-845-8488 Tel

979-458-4765 Fax

bmccutchen@tamu.edu

---

From: Avant, Bob  
Sent: Thursday, March 26, 2009 5:05 PM  
To: Avant, Bob; Baltensperger, David; Bill Rooney; J Blumenthal (jblumenthal@ag.tamu.edu); Riskowski, Gerald; s-searcy@tamu.edu; Capareda, Sergio; Hall, Ken; 'Mark Holtzapple (mth4500@chemail.tamu.edu)'; Mahmoud El-Halwagi  
Cc: McCutchen, Bill; Lacewell, Ron; Simpson, Shay; ahelms@tamu.edu  
Subject: RE: Austin Energy Executive Summary

Attached is the latest version of the AE executive summary. Ken and Mark, please pay particular attention on how I reworked the pilot plant budget. Steve, you and I haven't visited and I'm not sure your concerns have been addressed. I would like to get the package of summaries to AE early next week so I would like to wrap up tomorrow.

Bob Avant

Program Director

Texas AgriLife Research

979/845-2908

(Cell)

bavant@tamu.edu

<http://agbioenergy.tamu.edu>

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** RDLacewell.EXTERNAL.Internet; DBaltensperger@ag.tamu.edu; GRiskowski.EXT...  
**CC:** Bridges.EXTERNAL.Internet; M\_Nelson.EXTERNAL.Internet; AHelms.EXTERNAL.I...  
**Date:** 3/30/2009 4:48 PM  
**Subject:** RE: Austin Energy

Thanks Bob. I will try to review tomorrow and/or hand you comments  
Weds. Let's see if AE is interested before pursuing GA with this one?  
We can always add?

Bill

--

Bill F. McCutchen, Ph.D.

Associate Director

Texas AgriLife Research

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113 Jack K. Williams Administration Building

2142 TAMU College Station, TX 77843-2142

979-845-8488 Tel

979-458-4765 Fax

bmccutchen@tamu.edu

---

From: Avant, Bob  
Sent: Sunday, March 29, 2009 6:08 PM  
To: Bill McCutchen (bmccutchen@tamu.edu); riskowski@tamu.edu; David  
Baltensperger (dbaltensperger@ag.tamu.edu); r-lacewell@tamu.edu  
Cc: shay-simpson@tamu.edu; ahelms@tamu.edu; m\_nelson@tamu.edu; Bridges,  
Brenda  
Subject: Austin Energy

Attached are three executive summaries for Austin Energy. Sergio is  
talking to Engineering about the co-burn concept. I would appreciate  
your comments on any of these. I would like to submit these to Austin  
Energy on Wednesday, April 1.

Bill, regarding the algae summary, I think we need to include GA as a participant but have not approached them yet. Should I wait to see if Austin bites, or send them a copy?

Ron, also on the algae summary, we need an economist. Any suggestions.

Shay, Adam, Brenda, and Michelle, I would appreciate a careful review, but don't word engineer at this late stage unless there is a fatal flaw. Michelle would you receive and incorporate comments

Bob Avant

Program Director

Texas AgriLife Research

979/845-2908

(Cell)

bavant@tamu.edu

<http://agbioenergy.tamu.edu>



**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DMStelly.EXTERNAL.Internet; JADaSilva@ag.tamu.edu  
**CC:** WLRooney.EXTERNAL.Internet; RSBrown@ag.tamu.edu; M\_Nelson.EXTERNAL.Inter...  
**Date:** 8/14/2010 8:15 AM  
**Subject:** Re: Bayer Meetings Sept 1&2 College Station

Jorge and all,

Thanks and good questions.

- 1) Yes a short 12-15 slide presentation would be appropriate. Leave plenty of time for questions and discussion.
- 2) The main goal is to introduce Bayer to some of our RD platforms across crops and disciplines
- 3) Yes, Bayer might have interests in collaborating and sponsoring RD; however we should keep the discussions (at this first meeting) with Bayer at the 50 ft level.

Their interest in your program is primarily in the area of sugarcane - molecular breeding program, germplasm pool as well as past, current and future lines of cane.

Hope this helps.

Bill

--

Bill F. McCutchen, Ph.D.  
Associate Director  
Texas AgriLife Research  
Texas A&M University System  
113 J. K. Williams Admin Bld  
2142 TAMU College Station, TX 77843-2142  
979-845-8488 bmccutchen@tamu.edu

---

From: Jorge Da Silva <JADaSilva@ag.tamu.edu>  
To: Stelly, David <stelly@tamu.edu>  
Cc: Helms, Adam; mike gould <jimgould@ag.tamu.edu>; Mullet, John E.; Jackie Rudd <j-rudd@tamu.edu>; Hays Dirk <dbhays@ag.tamu.edu>; Ibrahim Amir <Albrahim@ag.tamu.edu>; Awika, Joseph M <JAwika@ag.tamu.edu>; Baltensperger, David; McCutchen, Bill; Avant, Bob; Jaroy Moore <jmoore@ag.tamu.edu>; jsweeten@ag.tamu.edu <jsweeten@ag.tamu.edu>; Young Judy <j-young@tamu.edu>; Slovacek, Jackie; McClellan, Matthew; Nelson, Michelle; Steve Brown <rsbrown@ag.tamu.edu>; Rooney Bill <wlr@tamu.edu>  
Sent: Fri Aug 13 15:13:48 2010  
Subject: Re: Bayer Meetings Sept 1&2 College Station

All,

The agenda and title work for me too.

Please correct me if I'm wrong, but since we have been allotted around 30 minutes, I'm assuming a formal Power Point presentation, with time for discussion.

Since I have not been involved on previous talks with Bayer, I wonder what would be the main goal for this visit. Is Bayer considering a collaboration, a potential funding, both,...?

Thanks.

Jorge

Jorge A. Da Silva  
Professor  
Texas AgriLife Research - Weslaco  
Soil & Crop Science Department

On Aug 12, 2010, at 10:51 AM, Stelly, David wrote:

Works for me. I will coordinate with John, Jorge and, if available, and Bill Rooney.

DS

On Aug 11, 2010, at 6:05 PM, Helms, Adam wrote:

Good Afternoon:

Attached is an updated agenda for the Bayer visit Sept 1 & 2. Please double-check the times/titles. I would like to pass this on to Bayer by the end of this week.

Best,

Adam

Adam Helms

AgriLife Research Corporate Relations

(mobile)

979-458-2677 (office)

---

From: Helms, Adam  
Sent: Friday, August 06, 2010 8:32 AM  
To: mike gould; 'Jorge da Silva'; John Mullet; Jackie Rudd; Dirk Hays; Amir M Ibrahim; 'Awika, Joseph M'  
Cc: Baltensperger, David; McCutchen, Bill; Avant, Bob; jmoore@ag.tamu.edu; jsweeten@ag.tamu.edu; 'Judy Young'; Slovacek, Jackie; McClellan, Matthew; Nelson, Michelle; rsbrown@ag.tamu.edu  
Subject: Bayer Meetings Sept 1&2 College Station  
Importance: High

Good Morning:

Please find attached a DRAFT agenda for a meeting with Bayer's Global Head of Breeding, Mike Gilbert. Mike plans to fly into College Station the morning of September 1 and out on the afternoon of the 2nd. If you have a conflict with the time you are tentatively slotted for, please let me know so I can adjust accordingly.

If you have suggestions for topics to be added or deleted from the agenda, please do not hesitate to let me know.

Thank you for your assistance with this meeting.

Best,

Adam

Adam Helms

Project Manager

Corporate Relations

Texas AgriLife Research

Texas A&M University System

100E Centeq Building A, Research Park

1500 Research Parkway

College Station, Texas 77843-2583

(mobile)

979-458-2677 (office)

Agenda.doc>

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** JSlovacek.EXTERNAL.Internet; KZak.EXTERNAL.Internet;  
**CC:** AHelms.EXTERNAL.Internet; DBaltensperger@ag.tamu.edu;  
**Date:** 2/8/2010 7:39 PM  
**Subject:** Re: BFA proposal

Alex,

Kendra or Jackie can send you some of the hotel numbers.

---

From: Avant, Bob  
To: Alex Verjovsky  
Cc: Travis Miller <td-miller@tamu.edu>; Dick Auld <DICK.AULD@ttu.edu>; William Goldfarb >;  
McCutchen, Bill; Baltensperger, David; ahelms@tamu.edu <ahelms@tamu.edu>  
Sent: Mon Feb 08 19:37:03 2010  
Subject: Re: BFA proposal

Alex

1 I am traveling. please resend the agenda and I'll review while traveling --unless Travis already has it.

2 There are a large number of hotels. Anything on University Drive will be convenient.

Sent from my iPhone

On Feb 8, 2010, at 6:05 PM, "Alex Verjovsky" > wrote:

Perfect Bob!

We look forward to the 16th, please email the final agenda whenever you guys have it. We sent you an agenda that we proposed a while ago. I also wanted to ask you if you know of a hotel we could stay at closer to College Station? We are flying into San Antonio and to make it to College Station at 0900 on the 16th we would have to leave at 0400 and the roads might be icy. Any advise will be highly appreciated.

Thanks again!

Alex

From: Avant, Bob [mailto:bavant@tamu.edu]  
Sent: Monday, February 08, 2010 17:47  
To: Alex Verjovsky; Travis Miller; Dick Auld

Cc: William Goldfarb; bmccutchen@tamu.edu;  
dbaltensperger@ag.tamu.edu; <mailto:ahelms@tamu.edu> ahelms@tamu.edu  
Subject: RE: BFA proposal

Thanks Alex,

I think this is a good basis for discussion. The next steps would be: 1) Negotiation/execution of a Master Agreement and 2) Development of proposals in the targeted areas. We should follow up on these on the 16th.

Bob Avant  
Program Director  
Texas AgriLife Research  
979/845-2908  
(Cell)  
bavant@tamu.edu

From: Alex Verjovsky  
Sent: Sunday, February 07, 2010 7:35 PM  
To: Avant, Bob; 'Travis Miller'; 'Dick Auld'  
Cc: 'William Goldfarb';  
Subject: BFA proposal

Bob/Travis hi,

Here is the proposal for the partnership between BFA and Agrilife/A&M. We believe that this is what we need, and would like to hear from you what you believe you can commit to. Once we agree on the project, we can move onto the specifics of the project and also the budget.

Looking forward to the 16.

Alex

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** PGibbs@ag.tamu.edu; RVAvant.EXTERNAL.Internet; DKLunt.EXTERNAL.Internet;...  
**CC:** DBaltensperger@ag.tamu.edu; NBPenn.EXTERNAL.Internet; JSlovacek.EXTERNAL...  
**Date:** 10/31/2009 1:15 PM  
**Subject:** Re: Bill Gates Bets a Billion on Ag Research

Thanks Ron and agree.

---

From: Lacewell, Ron  
To: McCutchen, Bill; Lunt, David; Avant, Bob; Gibbs, Pete  
Cc: Nessler, Craig; Slovacek, Jackie; Penn, Nancye B; Baltensperger, David  
Sent: Sat Oct 31 13:13:48 2009  
Subject: RE: Bill Gates Bets a Billion on Ag Research

Need Baltensperger involved in that he has someone from Gates headed to campus.

Ron

Ronald D. Lacewell  
Assistant Vice Chancellor  
Texas A&M Agriculture Office of Federal Relations  
1500 Research Parkway, Suite 150  
2259 TAMU  
College Station, TX 77843-2259  
Office 979-862-7138  
Cell  
Fax 979-845-1527  
r-lacewell@tamu.edu

---

From: McCutchen, Bill  
Sent: Saturday, October 31, 2009 1:04 PM  
To: Lunt, David; Lacewell, Ron; Avant, Bob; Gibbs, Pete  
Cc: Nessler, Craig; Slovacek, Jackie; Penn, Nancye B  
Subject: Re: Bill Gates Bets a Billion on Ag Research

Agreed. Potentially significant opportunity to leverage our strengths and capabilities. We should set a meeting to discuss potential opportunities?!?

Jackie can you arrange?

Thanks,

Bill

---

From: Lunt, David  
To: Lacewell, Ron; Hussey, Mark; Dugas, William; Smith, Edward (Ed) G.; 'Kyle Smith' <k-smith10@tamu.edu>; McCutchen, Bill; Avant, Bob

Cc: Nessler, Craig  
Sent: Fri Oct 30 14:56:08 2009  
Subject: RE: Bill Gates Bets a Billion on Ag Research

We need to discuss with Jaroy Moore to see how Wenwei Xu's work with drought tolerance fits with what the Gates Foundation wants to accomplish.

\*\*\*\*\*

David K. Lunt

Assistant Director

Texas AgriLife Research

Texas A&M System

113 Jack K Williams Administration Building

College Station, TX 77843-2142

TEL: (979) 458-1425

FAX: (979) 458-4765

d-lunt@tamu.edu

<http://AgriLifeResearch.tamu.edu>

From: Lacewell, Ron  
Sent: Friday, October 30, 2009 2:51 PM  
To: Hussey, Mark; Dugas, William; Lunt, David; Smith, Edward (Ed) G.; Kyle Smith; McCutchen, Bill; Avant, Bob  
Subject: FW: Bill Gates Bets a Billion on Ag Research

Was hearing this in DC this week. Gates has the stroke to make a difference. Are we positioned to leverage the relationship with Norman Borlaug to work with Gates Foundation?

Ronald D. Lacewell

Assistant Vice Chancellor

Office of Federal Relations

Texas A&M AgriLife

979 862 7138 phone

cell

979 845 1527 fax

---

From: Jeff Nunley  
Sent: Friday, October 30, 2009 11:09 AM  
To: Jeff Nunley  
Subject: Bill Gates Bets a Billion on Ag Research

Bill Gates Bets a Billion on Ag Research <<http://newsbyus.com/index.php/article/2826>>  
by Dennis T. Avery (10/27/09)

CHURCHVILLE, VA - "Environmentalists are standing in the way of feeding humanity through their opposition to biotechnology, farm chemicals and nitrogen fertilizer" - straight talk from billionaire Bill Gates at the World Food Prize Symposium in Des Moines October 15th.

Gates could have said with equal truth that the same environmentalists, by demanding organic-only farming <<http://newsbyus.com/index.php/article/2826##>> , are risking the future of the planet's wildlife <<http://newsbyus.com/index.php/article/2826##>> . The world will need more than twice as much food by 2050 to feed a peak population of 8 billion affluent humans and their pets. Gates believes we should get that additional food from higher yields on the 37 percent of the earth's land area we already farm, not by threatening massive numbers of wildlife species by clearing more land for low-yield crops.

Gates has thus delivered the most important speech on food and the world's future since Dr. Norman Borlaug accepted his 1970 Nobel Peace Prize. Borlaug's "miracle wheat" had made him the symbol of the original Green Revolution, which tripled yields on the world's best cropland through scientific research after 1960. Dr. Borlaug spent the last years of his amazing life trying to extend the Green Revolution to Africa and many farming regions with marginal lands, where today more than 1 billion people try to feed their families with hunting and slash-and-burn farming.

Now, Gates has committed more than \$1 billion of his personal fortune to improving crop yields in Africa and marginal farming regions. He announced in Des Moines another \$120 million in gifts for additional farm productivity research, including support for drought-tolerant corn and pest-resistant sweet potatoes. Until this moment, Gates had not spoken out on the use of biotech and chemicals to continue raising world crop yields.

Britain's Royal Society has also just produced a study, Reaping the Benefits: Science and the Sustainable Intensification of Agriculture <<http://newsbyus.com/index.php/article/2826##>> . Led by Dr. David Baulcombe, this report also concludes that biotech crops are one of the technologies urgently needed to avoid a global food crisis.



The eco-activists have claimed that organic-only farming could provide all the food needed - but only if humanity became vegetarian. Otherwise, there's a severe global shortage of cow manure and "extra" land and water to plant vastly more nitrogen-fixing green manure crops. However, history tells us that only a tiny percent of humans voluntarily choose to be vegetarian.

The Center for Global Food Issues and the reports of the Council for Agricultural Science and Technology say even going vegetarian wouldn't save enough land from the plow. More research must be brought to the farms in the coming decades to avoid wildlife disaster. The saving grace to date is that we've farmed the best land, which had large numbers of a few species; expanding onto the poor soils will threaten huge numbers of species.

Ironically, another speaker at the World Food Prize Symposium - economist <http://newsbyus.com/index.php/article/2826###> Jeffrey Sachs who directs the Earth Institute at Columbia University <http://newsbyus.com/index.php/article/2826###> - criticized agriculture as the world's largest emitter of greenhouse gases. Sachs, of course, was implying that either the world's people must somehow sharply cut back on food and manufacturing, or cut human numbers by some enormous percentage.

It was an ironic reminder that the first Green Revolution lost its momentum after its funding from the Rockefeller Foundation had been drastically cut back. Ethicist Garrett Hardin tells us that Allan Gregg, a Rockefeller vice president, was one of the first to refer to population growth as "a cancer on the earth." The government agencies that took over support for the international agricultural research network after Rockefeller dropped it have not been able to stand up to the political clout of the green movement.

Once again private philanthropy may provide the final step toward a world of adequately fed people and abundant wild-lands, as it did during the first Green Revolution.

Dennis T. Avery

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** RVAvant.EXTERNAL.Internet; janice.l.person@monsanto.com  
**CC:** DBaltensperger@ag.tamu.edu; JALandivar@ag.tamu.edu; john.p.purcell@monsa...  
**Date:** 1/7/2009 4:34 PM  
**Subject:** Re: Breakfast

Just confirming 7:30 at Sazos tomorrow morning.

---

From: PERSON, JANICE L [AG/1030]  
To: McCutchen, Bill; Avant, Bob  
Cc: Slovacek, Jackie; PURCELL, JOHN P [AG/1000]  
Sent: Mon Jan 05 20:40:32 2009  
Subject: Re: Breakfast

Talked to John and we are set!

Jp

-----  
Janice Person  
Monsanto / D&PL  
Public Affairs  
1715 Aaron Brenner Drive Suite 301  
Renaissance Center  
Memphis, TN 38120  
Direct 901-375-5656  
Fax 901-375-5316

----- Original Message -----

From: McCutchen, Bill <bmccutchen@tamu.edu>  
To: PERSON, JANICE L [AG/1030]; Avant, Bob <bavant@tamu.edu>  
Cc: Slovacek, Jackie <j-slovacek@tamu.edu>  
Sent: Mon Jan 05 15:42:09 2009  
Subject: Re: Breakfast

Thanks Janice. 7:30 to 8:20 should work. We will discuss molecular marker donation and potential areas of collaborative RD? Sound good?

Bill

---

From: PERSON, JANICE L [AG/1030]  
To: McCutchen, Bill; Avant, Bob  
Cc: Slovacek, Jackie  
Sent: Mon Jan 05 15:01:32 2009  
Subject: Re: Breakfast

I think we can do that but I'd like to confirm with John. We have an 8:30 meeting in the rivercenter we will have to make but we may be able to meet at 730.

-----  
Janice Person  
Monsanto / D&PL  
Public Affairs  
1715 Aaron Brenner Drive Suite 301  
Renaissance Center  
Memphis, TN 38120  
Direct 901-375-5656  
Fax 901-375-5316

----- Original Message -----

From: McCutchen, Bill <bmccutchen@tamu.edu>  
To: Avant, Bob <bavant@tamu.edu>; PERSON, JANICE L [AG/1030]  
Cc: Slovacek, Jackie <j-slovacek@tamu.edu>  
Sent: Mon Jan 05 14:55:23 2009  
Subject: Re: Breakfast

Janice,

Does Thurs Bfst work? How many from Monsanto so we can coordinate?

Let us know and look forward to discussion.

Thanks Bob.

Bill

----- Original Message -----

From: Avant, Bob  
To: 'janice.l.person@monsanto.com' <janice.l.person@monsanto.com>  
Cc: McCutchen, Bill; Slovacek, Jackie  
Sent: Mon Jan 05 13:58:36 2009  
Subject: Breakfast

Janice,

I have set up a breakfast meeting at 7:00 on Thur. at Sazos on the second floor of the RiverCenter Marriott in Bill's name. He will stay over to meet Thur.

Does this work for Monsanto?

Bob Avant  
(Cell)

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** RVAvant.EXTERNAL.Internet; janice.l.person@monsanto.com  
**CC:** douglas.w.rushing@monsanto.com; DBaltensperger@ag.tamu.edu; JALandivar@a...  
**Date:** 1/7/2009 4:50 PM  
**Subject:** Re: Breakfast

Thanks

---

From: PERSON, JANICE L [AG/1030]  
To: McCutchen, Bill; Avant, Bob  
Cc: Slovacek, Jackie; PURCELL, JOHN P [AG/1000] ; jalandivar@ag.tamu.edu ; Baltensperger, David;  
RUSHING, DOUGLAS W [AG/1000]  
Sent: Wed Jan 07 16:40:28 2009  
Subject: Re: Breakfast

We are good. Purcell, Rushing and I will see you there.

-----  
Janice Person  
Monsanto / D&PL  
Public Affairs  
1715 Aaron Brenner Drive Suite 301  
Renaissance Center  
Memphis, TN 38120  
Direct 901-375-5656  
Fax 901-375-5316

----- Original Message -----

From: McCutchen, Bill <bmccutchen@tamu.edu>  
To: PERSON, JANICE L [AG/1030]; Avant, Bob <bavant@tamu.edu>  
Cc: Slovacek, Jackie <j-slovacek@tamu.edu>; PURCELL, JOHN P [AG/1000]; jalandivar@ag.tamu.edu  
<jalandivar@ag.tamu.edu>; Baltensperger, David <dbaltensperger@ag.tamu.edu>  
Sent: Wed Jan 07 16:34:41 2009  
Subject: Re: Breakfast

Just confirming 7:30 at Sazos tomorrow morning.

---

From: PERSON, JANICE L [AG/1030]  
To: McCutchen, Bill; Avant, Bob  
Cc: Slovacek, Jackie; PURCELL, JOHN P [AG/1000]  
Sent: Mon Jan 05 20:40:32 2009  
Subject: Re: Breakfast

Talked to John and we are set!

Jp

-----

Janice Person  
Monsanto / D&PL  
Public Affairs  
1715 Aaron Brenner Drive Suite 301  
Renaissance Center  
Memphis, TN 38120  
Direct 901-375-5656  
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----- Original Message -----

From: McCutchen, Bill <bmccutchen@tamu.edu>  
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To: McCutchen, Bill; Avant, Bob  
Cc: Slovacek, Jackie  
Sent: Mon Jan 05 15:01:32 2009  
Subject: Re: Breakfast

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Janice Person  
Monsanto / D&PL  
Public Affairs  
1715 Aaron Brenner Drive Suite 301  
Renaissance Center  
Memphis, TN 38120  
Direct 901-375-5656  
Fax 901-375-5316

----- Original Message -----

From: McCutchen, Bill <bmccutchen@tamu.edu>  
To: Avant, Bob <bavant@tamu.edu>; PERSON, JANICE L [AG/1030]  
Cc: Slovacek, Jackie <j-slovacek@tamu.edu>  
Sent: Mon Jan 05 14:55:23 2009  
Subject: Re: Breakfast

Janice,

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Thanks Bob.

Bill

----- Original Message -----

From: Avant, Bob

To: 'janice.l.person@monsanto.com' <janice.l.person@monsanto.com>

Cc: McCutchen, Bill; Slovacek, Jackie

Sent: Mon Jan 05 13:58:36 2009

Subject: Breakfast

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Does this work for Monsanto?

Bob Avant

(Cell)

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** RSBrown@ag.tamu.edu; JSWEETEN@ag.tamu.edu  
**CC:** JCRUDD@ag.tamu.edu; DBaltensperger@ag.tamu.edu  
**Date:** 7/19/2010 9:20 PM  
**Subject:** Re: Call with Monsanto - Friday July 23rd

Thanks John.

---

From: John Sweeten <j-sweeten@tamu.edu>  
To: Steve Brown <RSBrown@ag.tamu.edu>  
Cc: Baltensperger, David; McCutchen, Bill; Jackie Rudd <j-rudd@tamu.edu>  
Sent: Mon Jul 19 19:00:17 2010  
Subject: Re: Call with Monsanto - Friday July 23rd

I read this today and gave Jackie the benefit of some clarifying edits, to use at his discretion. Thanks for sharing, Steve. jms

John M. Sweeten, Ph.D., P.E.  
Resident Director & Professor  
Texas AgriLife Research at Amarillo & Vernon  
6500 Amarillo Blvd., West  
Amarillo, TX 79106-1796  
Phone (806) 677-5600  
Fax (806) 677-5644

>>> Steve Brown 7/19/2010 11:26 AM >>>  
Thanks John,

Just in case you and David don't have the Executive Summary and addendum, they are attached.

Thanks again,

Steve Brown  
Program Director  
Texas Foundation Seed Service  
Email: rsbrown@ag.tamu.edu  
PH: 940-552-6226  
website <http://tfss.tamu.edu>  
FAX:940-552-5524

>>> John Sweeten 7/19/2010 11:06 AM >>>

Steve-- I appreciate being brought back into the loop on this matter, which can be significant winner for us here. Jackie said he'll be on the conference call and I will participate for just the first few minutes. Reason is that I represent CORD on the Search Advisory Committee for the Department Head in Biological and Agricultural Engineering, which has it's post-interview "final" (?) conference call at that very hour. Thanks again for including me, and if you wish to discuss it more, I'll be in Vernon this Thursday and again next Tuesday.

JMS

John M. Sweeten, Ph.D., P.E.



Resident Director & Professor  
Texas AgriLife Research at Amarillo & Vernon  
6500 Amarillo Blvd., West  
Amarillo, TX 79106-1796  
Phone (806) 677-5600  
Fax (806) 677-5644

>>> Steve Brown 7/19/2010 10:43 AM >>>  
David and John,

We have a call set up with the Monsanto wheat team to discuss the feasibility of a collaboration between AgriLife/Monsanto on a mapping population of crosses.

The call is scheduled at 9:00 AM on July 23rd:

Call in # 888-296-6500  
Code

Would you like to participate in this call?

Thanks,

Steve Brown  
Program Director  
Texas Foundation Seed Service  
Email: [rsbrown@ag.tamu.edu](mailto:rsbrown@ag.tamu.edu)  
PH: 940-552-6226  
website <http://tfss.tamu.edu>  
FAX:940-552-5524

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** LRooney@ag.tamu.edu  
**CC:** JHurley@tamu.edu; brummettr@tamu.edu; PLSchuerman.EXTERNAL.Internet; JSI...  
**Date:** 8/26/2009 5:51 PM  
**Subject:** Re: Cancer Intitative

Lloyd,

Let's have a teleconference and yes I believe we can play ball.

NSP want to participate and will help us contact major companies. Can someone send this to Bob Harris please and follow-up with a call?

Jackie,

Can you set a telecon with as many of this group asap to discuss? Perhaps Friday to get me out of rice meetings for a while?

Thanks,  
Bill

---

From: Lloyd Rooney <lrooney@tamu.edu>  
To: McCutchen, Bill  
Sent: Wed Aug 26 13:00:15 2009  
Subject: Cancer Intitative

Bill I do not see anything that we can hang our hat on regarding evaluatin of potential anti-carcinogenic. I hope I am wrong!!! Can we pull together a group of folks here to seek funding to evaluate new potential anticancer agents ie Looks like we are on outside looking in? How do we get to the party?? Thanks LLoyd

Dr. Lloyd W. Rooney  
Regents Professor and Faculty Fellow  
Cereal Quality Laboratory  
Texas A&M AgriLife Research  
2474 TAMU  
College Station, TX 77843-2474 USA  
phone 979 845 2910; fax 979 845 0456  
<lrooney@tamu.edu> <http://soilcrop.tamu.edu> <<http://soilcrop.tamu.edu>> <http://tamufood.org>  
<<http://tamufood.org>>

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:**  
**CC:** cnessler@tamu.edu; td-miller@tamu.edu; dick.auld@ttu.edu; kzak@tamu.edu;...  
**Date:** 11/8/2009 1:28 PM  
**Subject:** Re: Castor dialog

Kish,

Unfortunately and on short notice, it appears that all of our primary castor specialists will be out of the office on the 20th. That said, we should be able to put a knowledgeable group together, i.e. we can proceed anyway knowing that our castor talent is likely not available. Would the 16th possibly work?

Kendra and Jackie will be following up with you per the presumption that we can make 1 of these 2 dates work.

Thanks,

Bill

---

From:  
To: McCutchen, Bill  
Cc: Avant, Bob; Baltensperger, David; jmoore@ag.tamu.edu <jmoore@ag.tamu.edu>; ahelms@tamu.edu <ahelms@tamu.edu>; Slovacek, Jackie; Zak, Kendra  
Sent: Sun Nov 08 02:37:30 2009  
Subject: Re: Castor dialog

Thanks Bill. I will explore for Nov 20th meeting with my associates and revert. The company that I will bring with me is called Kaiima. It is an Israeli company involved in castor improvement and I will bring its CEO to the meeting.

Here is a draft agenda:

1. Introductions
2. Objective for the session - exchange information on the status of castor projects and develop specific objectives and modalities for future development- First 15 mins for 1 and 2.
3. Status of castor, learnings to date - Kaiima, Tx A&M, Mogene - two hours total
4. Are there big issues in castor that are worth pursuing? group dialog - 30 mins summary if we have identified them in 3
5. What can we do about the big opportunities? group dialog - 15 mins
6. Are there mechanisms for working together to pursue the big opportunities? group dialog for 30 mins
6. Next steps - 15 mins

So I expect the meeting to take about 3 and half hours. Let me know if this agenda makes sense.

As soon as I hear from Kaiima, let me revert re. logistics. Have a great weekend.

Best wishes,

Kish

-----Original Message-----

From: McCutchen, Bill <bmccutchen@tamu.edu>  
To:  
Cc: Avant, Bob <bavant@tamu.edu>; Baltensperger, David <dbaltensperger@ag.tamu.edu>; jmoore@ag.tamu.edu; ahelms@tamu.edu; Slovacek, Jackie <j-slovacek@tamu.edu>; Zak, Kendra <kzak@tamu.edu>  
Sent: Sun, Nov 8, 2009 11:45 am

Subject: Re: Castor dialog

Kish,

We are looking into the possibilities. Although our 2 primary castor specialists - breeders, agronomic systems approach - won't be able to attend, we should be able to have a half day meeting with others knowledgeable in these areas.

Looks like Nov. 20th is best but could potential meet on the 16th. Does this work? If so, are you interested in a dinner the night before? One more request, can you provide some bullet points for a draft agenda and we will add to it and send back a draft itinerary and agenda.

Thanks,

Bill

---

From: Ganesh Kishore <  
To: McCutchen, Bill  
Sent: Sat Nov 07 02:24:43 2009  
Subject: Re: Castor dialog

Thanks Bill. Best, Kish

Sent from my iPhone

On Nov 6, 2009, at 9:04 PM, "McCutchen, Bill" <bmccutchen@tamu.edu> wrote:

Kish,

I will see if we can align some schedules and get back to you.

Bill

---

From: <  
To: McCutchen, Bill  
Sent: Fri Nov 06 02:20:10 2009  
Subject: Castor dialog

Hi Bill .. Hope all is well. I am afraid I dropped the ball on castor during the summer months. I was wondering if I could bring along a company committed to castor improvement and visit you at College Station in mid November. Could you please let me know if you and your castor team can spend half a day in an informaion sharing session? If there are better days around Mid November, please let me know - it will have to be the week of Nov 16th but not on Nov 19th.

Best wishes,  
Kish

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** shay-simpson@tamu.edu; JMoore@ag.tamu.edu; DBaltensperger@ag.tamu.edu  
**CC:** j-slovacek@tamu.edu; ahelms@tamu.edu; bavant@tamu.edu  
**Date:** 11/6/2009 1:52 PM  
**Subject:** Re: Castor dialog

Let's hear back from Jaroy, Bob, Adam and/or Shay, and I will lock this in. Jaroy, if you wanted to we can set-up telecon/webmaster for meeting if you wanted to participate but remain in Lubbock.

----- Original Message -----

From: David Baltensperger <DBaltensperger@ag.tamu.edu>  
To: McCutchen, Bill  
Sent: Fri Nov 06 13:38:50 2009  
Subject: Re: Castor dialog

Bill,

I can make the 18th morning until 3 work if needed.

David Baltensperger  
Professor and Head  
Soil and Crop Sciences  
Texas A&M University  
2472 TAMU  
College Station  
Texas 77843-2474

979-845-3041

-----Original Message-----

From: "McCutchen, Bill" <bmccutchen@tamu.edu>  
To: Moore, Jaroy <JMoore@ag.tamu.edu>  
To: Baltensperger, David <DBaltensperger@ag.tamu.edu>  
To: Avant, Bob <bavant@tamu.edu>  
Cc: Slovacek, Jackie <j-slovacek@tamu.edu>  
Cc: Zak, Kendra <kzak@tamu.edu>  
To: <td-miller@tamu.edu>  
To: <dick.auld@ttu.edu>

Sent: 11/6/2009 9:41:35 AM  
Subject: Fw: Castor dialog

Please see email below. Any chance that we can pull this off the week of the 16th? I think it would be worth our time to meet.

I will be in Mc Allen for Zebra Chip Meetings and then Beaumont for CORD; so I can't attend.

Bill

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From: McCutchen, Bill  
To: ' ' < >  
Sent: Fri Nov 06 09:34:14 2009  
Subject: Re: Castor dialog

Kish,

I will see if we can align some schedules and get back to you.

Bill

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From: <  
To: McCutchen, Bill  
Sent: Fri Nov 06 02:20:10 2009  
Subject: Castor dialog

Hi Bill .. Hope all is well. I am afraid I dropped the ball on castor during the summer months. I was wondering if I could bring along a company committed to castor improvement and visit you at College Station in mid November. Could you please let me know if you and your castor team can spend half a day in an informaion sharing session? If there are better days around Mid November, please let me know - it will have to be the week of Nov 16th but not on Nov 19th.

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** bavant@tamu.edu  
**CC:** j-slovacek@tamu.edu; kzak@tamu.edu; dick.auld@ttu.edu; JMoore@ag.tamu.ed...  
**Date:** 11/7/2009 9:13 PM  
**Subject:** Re: Castor dialog

It looks like the 20th over the 16th. Who could attend in person or by phone for a 1/2 day meeting? Also, should we have any others join us? Someone from Ag Eng to cover castor harvest, etc?

Jackie can you work with Kish to see if the Nov 20th is a possibility? If not, how about 16th?

Thanks much.

Bill

---

From: Avant, Bob  
To: McCutchen, Bill  
Cc: td-miller@tamu.edu <td-miller@tamu.edu>; Baltensperger, David; jmoore@ag.tamu.edu <jmoore@ag.tamu.edu>; dick.auld@ttu.edu <dick.auld@ttu.edu>; Zak, Kendra; Slovacek, Jackie  
Sent: Fri Nov 06 18:17:07 2009  
Subject: Re: Castor dialog

Bill

Only open date maybe the 20th, DARPA qtr rev is that week in San Diego

Sent from my iPhone

On Nov 6, 2009, at 5:41 AM, "McCutchen, Bill" <bmccutchen@tamu.edu> wrote:

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:**  
**CC:** kzak@tamu.edu; j-slovacek@tamu.edu; ahelms@tamu.edu; JMoore@ag.tamu.edu;...  
**Date:** 11/7/2009 9:45 PM  
**Subject:** Re: Castor dialog

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Bill

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From: Ganesh Kishore <  
To: McCutchen, Bill  
Sent: Sat Nov 07 02:24:43 2009  
Subject: Re: Castor dialog

Thanks Bill. Best, Kish

Sent from my iPhone

On Nov 6, 2009, at 9:04 PM, "McCutchen, Bill" <bmccutchen@tamu.edu> wrote:

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu  
**Date:** 11/7/2009 9:50 PM  
**Subject:** Re: Castor dialog

Which day?

----- Original Message -----

From: David Baltensperger <DBaltensperger@ag.tamu.edu>  
To: McCutchen, Bill  
Sent: Sat Nov 07 21:49:05 2009  
Subject: Re: Castor dialog

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David Baltensperger  
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Texas A&M University  
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979-845-3041

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu  
**Date:** 11/7/2009 10:02 PM  
**Subject:** Re: Castor dialog

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From: "McCutchen, Bill" <bmccutchen@tamu.edu>  
To: Baltensperger, David <DBaltensperger@ag.tamu.edu>

Sent: 11/7/2009 9:53:12 PM

Subject: Re: Castor dialog

Shit

----- Original Message -----

From: David Baltensperger <DBaltensperger@ag.tamu.edu>  
To: McCutchen, Bill  
Sent: Sat Nov 07 21:51:10 2009  
Subject: Re: Castor dialog

The 20th.

David Baltensperger  
Professor and Head  
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-----Original Message-----

From: "McCutchen, Bill" <bmccutchen@tamu.edu>

To: Baltensperger, David <DBaltensperger@ag.tamu.edu>

Sent: 11/7/2009 9:50:01 PM

Subject: Re: Castor dialog

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu  
**Date:** 11/7/2009 10:05 PM  
**Subject:** Re: Castor dialog

Thought it went very well. Need to get him to visit AM soon.

----- Original Message -----

From: David Baltensperger <DBaltensperger@ag.tamu.edu>  
To: McCutchen, Bill  
Sent: Sat Nov 07 22:03:04 2009  
Subject: Re: Castor dialog

I was thrilled. You?

David Baltensperger  
Professor and Head  
Soil and Crop Sciences  
Texas A&M University  
2472 TAMU  
College Station  
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-----Original Message-----

From: "McCutchen, Bill" <bmccutchen@tamu.edu>  
To: Baltensperger, David <DBaltensperger@ag.tamu.edu>

Sent: 11/7/2009 10:01:43 PM  
Subject: Re: Castor dialog

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To: McCutchen, Bill

Sent: Sat Nov 07 21:51:10 2009

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To: Baltensperger, David <DBaltensperger@ag.tamu.edu>

Sent: 11/7/2009 9:50:01 PM

Subject: Re: Castor dialog

Which day?

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu  
**Date:** 11/8/2009 10:46 AM  
**Subject:** Re: Castor dialog

Dave,

You probably are already doing so, but need to set a visit to meet many people. Tillman probably should give a 45 min power point presentation as well to all that can attend.

Believe it is important to have him meet with Simpson and peanut breeding team. Would it be a good idea to send him a draft of Simpson's peanut strategic plan. Could some of the \$\$\$ be used to build a germplasm/collection facility in College Station or are you looking at Stephenville for this facility?

We should discuss more.

Bill

----- Original Message -----

From: David Baltensperger <DBaltensperger@ag.tamu.edu>  
To: McCutchen, Bill  
Sent: Sat Nov 07 22:03:04 2009  
Subject: Re: Castor dialog

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I will see if we can align some schedules and get back to you.

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** d-lunt@tamu.edu  
**CC:** cnessler@tamu.edu; td-miller@tamu.edu; dick.auld@ttu.edu; kzak@tamu.edu;...  
**Date:** 11/8/2009 1:34 PM  
**Subject:** Re: Castor dialog

Just so that you know. Kish was the lead investigator that developed RR for soy, corn, cotton, etc for Monsanto. He also just completed a long tenure as one of the CTO for the DuPont corporation. In other words, his intentions and requests should be taken very seriously.

Thanks,  
Bill

---

From: McCutchen, Bill  
To: '  
Cc: Avant, Bob; Baltensperger, David; 'jmoore@ag.tamu.edu' <jmoore@ag.tamu.edu>; 'ahelms@tamu.edu' <ahelms@tamu.edu>; Slovacek, Jackie; Zak, Kendra; 'dick.auld@ttu.edu' <dick.auld@ttu.edu>; 'td-miller@tamu.edu' <td-miller@tamu.edu>; Nessler, Craig  
Sent: Sun Nov 08 13:28:28 2009  
Subject: Re: Castor dialog

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**Date:** 11/9/2009 8:24 AM  
**Subject:** RE: Castor dialog

Steve,

Absolutely. Can you join us on November 20th for these meetings to provide an overview of our programs, please?

Bill

--

Bill F. McCutchen, Ph.D.

Associate Director

Texas AgriLife Research

Texas A&M University System

113 Jack K. Williams Administration Building

2142 TAMU College Station, TX 77843-2142

979-845-8488 Tel

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**CC:** dick.auld@ttu.edu; TMiller@ag.tamu.edu; JSlovacek.EXTERNAL.Internet; RVA...  
**Date:** 11/9/2009 7:54 PM  
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**CC:** dick.auld@ttu.edu; TMiller@ag.tamu.edu; JSlovacek.EXTERNAL.Internet; RVA...  
**Date:** 11/10/2009 10:01 AM  
**Subject:** Re: Castor dialog

Robert,

Thanks much. I don't believe it is necessary for you to travel from Lubbock for a 1/2 introductory meeting - esp if it's your anniversary. That said, I would encourage you to hook-up via webcast and provide an overview if you think this is appropriate. You are most welcome to join the entire meeting by telecon as well.

I have asked Adam Helms to assimilate an overview of our castor RD program with the help of Dick and Travis. I suggest you and Adam talk and see how you want to approach - perhaps coordinate presentations/discussion.

Also, Kendra can help facilitate the logistics of the webcast, telecon etc.

How does this sound?

Thanks again,

Bill

---

From: Wright, Robert <robert.wright@ttu.edu>  
To: McCutchen, Bill; TMiller@ag.tamu.edu <TMiller@ag.tamu.edu>; Zak, Kendra; sfinlayson@tamu.edu <sfinlayson@tamu.edu>  
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Sent: Tue Nov 10 08:58:20 2009  
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Bill,

I will gladly help in this endeavor.  
before 6 pm. Will it be a am or pm meeting?

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robert

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Cc: Avant, Bob <bavant@tamu.edu>; Baltensperger, David <dbaltensperger@ag.tamu.edu>; jmoore@ag.tamu.edu; ahelms@tamu.edu; Slovacek, Jackie <j-slovacek@tamu.edu>; Zak, Kendra <kzak@tamu.edu>; dick.auld@ttu.edu; td-miller@tamu.edu; Nessler, Craig <cnessler@tamu.edu>  
Sent: Mon, Nov 9, 2009 3:28 am  
Subject: Re: Castor dialog

Kish,

Unfortunately and on short notice, it appears that all of our primary castor specialists will be out of the office on the 20th. That said, we should be able to put a knowledgeable group together, i.e. we can proceed anyway knowing that our castor talent is likely not available. Would the 16th possibly work?

Kendra and Jackie will be following up with you per the presumption that we can make 1 of these 2 dates work.

Thanks,

Bill

---

From: <  
To: McCutchen, Bill  
Cc: Avant, Bob; Baltensperger, David; jmoore@ag.tamu.edu <jmoore@ag.tamu.edu>;  
ahelms@tamu.edu <ahelms@tamu.edu>; Slovacek, Jackie; Zak, Kendra  
Sent: Sun Nov 08 02:37:30 2009  
Subject: Re: Castor dialog

Thanks Bill. I will explore for Nov 20th meeting with my associates and revert.

The company that I will bring with me is called Kaiima. It is an Israeli company involved in castor improvement and I will bring its CEO to the meeting.

Here is a draft agenda:

1. Introductions
2. Objective for the session - exchange information on the status of castor projects and develop specific objectives and modalities for future development- First 15 mins for 1 and 2.
3. Status of castor, learnings to date - Kaiima, Tx A&M, Mogene - two hours total
4. Are there big issues in castor that are worth pursuing? group dialog - 30 mins summary if we have identified them in 3
5. What can we do about the big opportunities? group dialog - 15 mins
6. Are there mechanisms for working together to pursue the big opportunities? group dialog for 30 mins
6. Next steps - 15 mins

So I expect the meeting to take about 3 and half hours. Let me know if this agenda makes sense.

As soon as I hear from Kaiima, let me revert re. logistics. Have a great weekend.

Best wishes,

Kish

-----Original Message-----

From: McCutchen, Bill <bmccutchen@tamu.edu>  
To:  
Cc: Avant, Bob <bavant@tamu.edu>; Baltensperger, David <dbaltensperger@ag.tamu.edu>;  
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<kzak@tamu.edu>  
Sent: Sun, Nov 8, 2009 11:45 am  
Subject: Re: Castor dialog

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Looks like Nov. 20th is best but could potential meet on the 16th. Does this work? If so, are you interested in a dinner the night before? One more request, can you provide some bullet points for a draft agenda and we will add to it and send back a draft itinerary and agenda.

Thanks,

Bill

---

From: Ganesh Kishore <  
To: McCutchen, Bill  
Sent: Sat Nov 07 02:24:43 2009  
Subject: Re: Castor dialog

Thanks Bill. Best, Kish

Sent from my iPhone

On Nov 6, 2009, at 9:04 PM, "McCutchen, Bill" <bmccutchen@tamu.edu> wrote:

Kish,

I will see if we can align some schedules and get back to you.

Bill

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From: <  
To: McCutchen, Bill  
Sent: Fri Nov 06 02:20:10 2009  
Subject: Castor dialog

Hi Bill .. Hope all is well. I am afraid I dropped the ball on castor during the summer months. I was wondering if I could bring along a company committed to castor improvement and visit you at College Station in mid November. Could you please let me know if you and your castor team can spend half a day in an informaion sharing session? If there are better days around Mid November, please let me know - it will have to be the week of Nov 16th but not on Nov 19th.

Best wishes,

Kish

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:**  
**CC:** cnessler@tamu.edu; td-miller@tamu.edu; dick.auld@ttu.edu; kzak@tamu.edu;...  
**Date:** 11/9/2009 7:58 AM  
**Subject:** RE: Castor dialog

Kish,

We will work for the 20th then. Let us know if you need need help with logistics, etc.

Kendra, can you reserve conference room and see that those from A&M might be able to join us by phone if they can't attend in person? Perhaps call-in for an hour or two?

Bill

--

Bill F. McCutchen, Ph.D.

Associate Director

Texas AgriLife Research

Texas A&M University System

113 Jack K. Williams Administration Building

2142 TAMU College Station, TX 77843-2142

979-845-8488 Tel

979-458-4765 Fax

bmccutchen@tamu.edu

---

**From:** [mailto:  
**Sent:** Sunday, November 08, 2009 4:33 PM  
**To:** McCutchen, Bill  
**Cc:** Avant, Bob; Baltensperger, David; jmoore@ag.tamu.edu; ahelms@tamu.edu; Slovacek, Jackie; Zak, Kendra; dick.auld@ttu.edu; td-miller@tamu.edu; Nessler, Craig  
**Subject:** Re: Castor dialog

Thanks Bill. I had the CEO of Kaiima focus on 20th since I thought it may be a better day and he has already booked travel from West Coast but if you feel we should look into 16th, I will reapproach him. Let me know. I am sorry we will miss the experts but if we can access them over phone and if there is any data or other charts you may wish to share during the dialog, we will make do with it. Since it is a first meeting, I would prefer that we get started, however imperfect it may be. Hope you understand.

Cheers,

Kish

-----Original Message-----

From: McCutchen, Bill <bmccutchen@tam.u.edu>

To:

Cc: Avant, Bob <bavant@tam.u.edu>; Baltensperger, David <dbaltensperger@ag.tam.u.edu>; jmoore@ag.tam.u.edu; ahelms@tam.u.edu; Slovacek, Jackie <j-slovacek@tam.u.edu>; Zak, Kendra <kzak@tam.u.edu>; dick.auld@ttu.edu; td-miller@tam.u.edu; Nessler, Craig <cnessler@tam.u.edu>

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Kish

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** RVAvant.EXTERNAL.Internet; DBaltensperger@ag.tamu.edu; TMILLER@ag.tamu.e...  
**CC:** JSlovacek.EXTERNAL.Internet; JMoore@ag.tamu.edu; WDugas.EXTERNAL.Interne...  
**Date:** 6/10/2009 9:00 PM  
**Subject:** Re: Castor meeting

Travis,

Thanks for this update. I just spoke with David Kostroun and he indicated the meeting went well.

Perhaps this group should have a telecon to discuss this and upcoming meeting? If so, I will ask Jackie to arrange.

Bill

---

From: Travis Miller <td-miller@tamu.edu>  
To: Baltensperger, David; Juerg M Blumenthal <JBlumenthal@ag.tamu.edu>; Avant, Bob; Calvin L Trostle <c-trostle@tamu.edu>; Mike A Foster <ma-foster@tamu.edu>; Steve Hague <shague@tamu.edu>; Dick Auld <DICK.AULD@ttu.edu>  
Cc: McCutchen, Bill; Gibbs, Pete  
Sent: Wed Jun 10 17:17:50 2009  
Subject: Castor meeting

I met with David Gibson and Scott Averhoff of the Texas Corn Producers as well as Todd Staples, Drew DeBerry, David Kostroun and a couple of other TDA personnel in Austin today continue to set up the process to set up a meeting between parties interested in castor as an industrial oil/biofuel crop and commodity groups concerned about potential contamination issues from castor. It looks like the meeting will be on June 23 in Austin. I am charged with inviting the key people from the academic side and the castor industry, while the TDA and the Corn Producers are making contacts with the commodity groups.

Please let me know if you wish to participate and provide names which I have omitted.

Travis

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** RVAvant.EXTERNAL.Internet; TMiller@ag.tamu.edu  
**CC:** PGibbs@ag.tamu.edu; MAHussey.EXTERNAL.Internet; KSMITH@ag.tamu.edu; CNes...  
**Date:** 4/9/2010 7:13 PM  
**Subject:** Re: Castor meeting

I spoke with Bob a few minutes ago following recent meetings in Austin. I think we are making steady and impartial progress.

---

From: Travis Miller <td-miller@tamu.edu>  
To: Avant, Bob  
Cc: Baltensperger, David; Deborah Sutherland <DSutherland@ag.tamu.edu>; Rosie S; Bernadette Johnson <b-johnson9@tamu.edu>; McCutchen, Bill; Nessler, Craig; Slovacek, Jackie; Judy Young <j-young@tamu.edu>; Kyle Smith <k-smith10@tamu.edu>; Zak, Kendra; Hussey, Mark  
Sent: Fri Apr 09 14:09:54 2010  
Subject: Re: Castor meeting

Bob;

I look forward to your update and your commentary. By way of clarification on point 1), this is the case with all commodities. Also we should look at the other side of the coin and be an impartial source of information. At the current time, there is quite a bit of negative light being cast on castor that is not justified by our best scientific information. This is where we need to provide unbiased information and let our clientele make the appropriate decisions. I hope the bill, if it materializes, allows well reasoned regulation to prevent potential damage to other industries while opening up an opportunity for a product that is widely sought by energy and refining sectors in the state. It is incumbent upon us to be that voice of reason based upon science, not conjecture.

Thanks for your efforts.

Travis

>>> "Avant, Bob" <bavant@tamu.edu> 4/9/2010 11:59 AM >>>

At the 4/28 meeting, I will brief everyone on my castor mtg in Austin this morning.

Bottom line is:

- 1) AgriLife should be viewed as an impartial technical resource, not a cheer leader for castor. That should be the job of a castor commodity org.
- 2) A bill will be introduced (before the next session) to restrict castor production in TX.
- 3) If a compromise is to be had, a small working group needs to be working now with a resolution in hand this summer.

If you want more information before the 4/28 mtg, give me a call. I don't want to include more here.

Sent from my iPhone

On Apr 9, 2010, at 10:22 AM, "Rosie Schoenfeld" <RSchoenfeld@ag.tamu.edu> wrote:

This email confirms the Castor meeting for April 28 from 1:30-3:00 p.m. in the Extension

Conference Room (112 Williams Administration Building).

Attendees will be Kyle Smith, Pete Gibbs, Bob Avant, David Baltensperger and Travis Miller. Dr. Gibbs will brief Bill McCutchen after the meeting since he cannot attend.

Rosie

>>> Rosie Schoenfeld 4/7/2010 4:36 PM >>>

I'm trying to schedule a two-hour meeting to discuss the following:

- 1) if/how/when we might want to schedule a meeting with TDA,
- 2) perspectives by and relationships/communication with TDA, and
- 3) other items related to castor production in Texas.

The attendees would be Avant, Baltensperger, McCutchen, Miller, Smith, K., and Gibbs.

I need to check availability on the following times:

April 16 - 9-11  
April 27 - 1:30-5:00  
April 28 - 8:30-11  
April 28 - 1:30-5:00

Thanks.

Rosie

<IMAGE.BMP>

\*\*\*\*\*

Rosie Schoenfeld  
Assistant to the Associate Director  
Texas AgriLife Extension Service  
7101 TAMU  
College Station, TX 77843-7101  
Phone: 979-862-3932  
Fax: 979-458-0141  
E-mail: [rschoenfeld@ag.tamu.edu](mailto:rschoenfeld@ag.tamu.edu) <<mailto:rschoenfeld@ag.tamu.edu>>

\*\*\*\*\*

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** M\_Nelson.EXTERNAL.Internet; RVAvant.EXTERNAL.Internet; Cornwell@tamu.edu...  
**CC:** JHurley@tamu.edu; PLSchuerman.EXTERNAL.Internet; sfspurlin@tamu.edu  
**Date:** 5/19/2009 3:36 PM  
**Subject:** RE: Castor Phone Conference-AgriLife and MOgene, Held: May 18, 2009 -  
CONFIDENTIAL

I have asked Michelle to fill-in any blanks and mark as confidential.  
Please share with her any additional information. Once we have NDA in  
place, we will send this document for their feedback and next steps.

Thanks,

Bill

--

Bill F. McCutchen, Ph.D.

Associate Director

Texas AgriLife Research

Texas A&M University System

113 Jack K. Williams Administration Building

2142 TAMU College Station, TX 77843-2142

979-845-8488 Tel

979-458-4765 Fax

bmccutchen@tamu.edu

---

From: Schmitt, Brian C.  
Sent: Tuesday, May 19, 2009 11:00 AM  
To: McCutchen, Bill; 'dbaltensperger@tamu.edu'; Cornwell, Brett L.;  
Avant, Bob; Nelson, Michelle  
Cc: Spurlin, Shayna; Schuerman, Peter L.; Hurley, Janie C.  
Subject: Castor Phone Conference-AgriLife and MOgene, Held: May 18, 2009  
- CONFIDENTIAL

All:

I put together a summary of the phone conference with MOgene regarding a possible collaboration for genomics work and sequencing. The summary is attached as a MS Word document. Please feel free to make comments or suggestions.

Please take a look at the action items. I propose a course of action regarding FTO under the Chevron Agreements. Bill and Bob would also like Shayna to put an NDA in place between AgriLife and MOgene.

Feel free to contact me if you have any questions or comments.

Regards,

Brian Schmitt

Brian Schmitt, J.D.

Intellectual Property Manager

Registered Patent Attorney

Office of Technology Commercialization

Texas A&M University System

1700 Research Parkway, Suite 250

College Station, TX 77845

979-862-6832

bschmitt@tamu.edu

**CONFIDENTIALITY NOTE:**

This e-mail and any attachments are confidential and may be protected by legal privilege. If you are not the intended recipient, be aware that any disclosure, copying, distribution or use of this e-mail or any attachment is prohibited. If you have received this e-mail in error, please notify us immediately by returning it to the sender and delete this copy from your system. Thank you for your cooperation.



**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** JSlovacek.EXTERNAL.Internet; ahelms@dsmail.tamu.edu  
**CC:** DBaltensperger@ag.tamu.edu; DKLunt.EXTERNAL.Internet; mmcclellan@dsmail...  
**Date:** 6/30/2010 12:17 PM  
**Subject:** Re: Castor to Renewable Bio-Jet Fuel BRDI

Thanks Adam.

---

From: Helms, Adam  
To: McCutchen, Bill; Slovacek, Jackie  
Cc: Avant, Bob; Travis Miller <td-miller@tamu.edu>; McClellan, Matthew; Lunt, David; Baltensperger, David  
Sent: Wed Jun 30 11:55:59 2010  
Subject: Castor to Renewable Bio-Jet Fuel BRDI

Bill,

Per your request, please find attached the one-page condensed version of the Castor to Biojet Fuel BRDI we are submitting with Evogene, REG Fuels, UOP Honeywell, Pratt & Whitney and NASA.

I believe you stated you would like for Dr. Nessler, Dr. Lunt, yourself, Bob, Travis and I to meet about this project and the potential it provides. I would also like to include Matt McClellan as well. Did I miss anybody?

Jackie, could you help me arrange this meeting – please? :-)) It looks like July 15th is fairly open.

Please let me know if you have any further questions or comments.

Best,

Adam

Adam Helms

Project Manager

Corporate Relations



Texas AgriLife Research

Texas A&M University System

100E Centeq Building A, Research Park

1500 Research Parkway

College Station, Texas 77843-2583

(mobile)

979-458-2677 (office)

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** TMILLER@ag.tamu.edu; DBaltensperger@ag.tamu.edu; SSimpson.EXTERNAL.Inter...  
**CC:** WRHowell@tamu.edu  
**Date:** 1/21/2009 5:33 PM  
**Subject:** Re:

We need to be very careful. The only strategic and correct route is to ask Chevron if another major company was interested in industrial uses only. Still very complicated dividing end products.

Bill

---

From: McCutchen, Bill  
To: Avant, Bob; Helms, Adam; Schuerman, Peter L.; Simpson, Shay; Baltensperger, David; 'td-miller@tamu.edu'  
Cc: Howell, Bill  
Sent: Wed Jan 21 17:14:47 2009  
Subject: Re:

Yes

---

From: Avant, Bob  
To: Helms, Adam; McCutchen, Bill; Schuerman, Peter L.; Simpson, Shay; Baltensperger, David; 'td-miller@tamu.edu'  
Cc: Howell, Bill  
Sent: Wed Jan 21 17:04:45 2009  
Subject: Re:

We have a call at 9 in the morning with Chevron to discuss the DOE FOA. We could bring this up after we complete the DOE discussion.

Bob Avant  
(Cell)

---

From: Helms, Adam  
To: McCutchen, Bill; Avant, Bob; Schuerman, Peter L.; Simpson, Shay; Baltensperger, David; 'td-miller@tamu.edu'  
Cc: Howell, Bill  
Sent: Wed Jan 21 16:57:48 2009  
Subject:

I got a phone call yesterday from Dave Dzisiak from Dow AgroSciences and they are still interested in developing a Executive Summary with us, preferably before mid-February. Bill and I spoke briefly about this and we both agreed we need to engage Chevron first to determine our FTO. Bob and Shay, is their a possibility we can set up a conference call with Michelle and other appropriate personnel from Chevron before Friday? I would like to give DAS an answer as soon as possible.

Thanks,

Adam Helms

Assistant Project Manager

Corporate Relations

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**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** WRHowell@tamu.edu; TMILLER@ag.tamu.edu; AHelms.EXTERNAL.Internet; SSimps...  
**Date:** 1/21/2009 5:50 PM  
**Subject:** Re:

I can make this earlier time.

Peter and Bill, can u join or call-in? I have some legal questions regarding Chevron MA and may need OTC-OGC or outside counsel opinion IF and only IF Chevron agrees to potentially pursue.

Thanks,

Bill

---

From: Helms, Adam  
To: Avant, Bob; McCutchen, Bill; Schuerman, Peter L.; Baltensperger, David; Simpson, Shay; ahelms@tamu.edu ; td-miller@tamu.edu ; Howell, Bill  
Sent: Wed Jan 21 17:45:17 2009  
Subject: RE:

Can we meet 20-30 minutes (830am) before Chevron call to discuss?

---

From: Avant, Bob [mailto:bavant@tamu.edu]  
Sent: Wednesday, January 21, 2009 5:44 PM  
To: McCutchen, Bill; Schuerman, Peter L.; Baltensperger, David; Simpson, Shay; ahelms@tamu.edu; td-miller@tamu.edu; Howell, Bill  
Subject: Re:  
Importance: High

I agree.

Should/could we propose a licensing angle for Chevron to show some ROI short term by licensing to Dow if they provide sponsored research funding to supplement Chevron's funding of - for bioproduct use only?

Bob Avant

(Cell)

---

From: McCutchen, Bill  
To: Avant, Bob; Helms, Adam; Schuerman, Peter L.; Simpson, Shay; Baltensperger, David; 'td-miller@tamu.edu'  
Cc: Howell, Bill  
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cell)

979-458-2677 (office)

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** PLSchuerman.EXTERNAL.Internet; RVAvant.EXTERNAL.Internet; DBaltensperger...  
**Date:** 10/12/2009 5:52 PM  
**Subject:** Re: Ceres Quarterly - January

Good idea.

----- Original Message -----

From: Patricia Klein <pklein@tamu.edu>  
To: Simpson, Shay; Bill Rooney <wlr@tamu.edu>; Mullet, John E.; JÃ¼rg Blumenthal <jblumenthal@ag.tamu.edu>; Baltensperger, David; McCutchen, Bill; Avant, Bob; Schuerman, Peter L.  
Sent: Mon Oct 12 17:26:53 2009  
Subject: Re: Ceres Quarterly - January

Shay

There might be several of us in San Diego for the Plant and Animal Genome meetings on Jan. 9-13. Thus it would be great to either go right before or right afterwards to combine it into one trip if possible. Just a thought.

Thanks  
Trish

At 01:04 PM 10/12/2009, Simpson, Shay wrote:

>Hi team,  
>  
>Last December we discussed having our Ceres meetings in January 2010  
>instead of December 2009. We talked about scheduling for second week  
>of Jan. However, the announcement for the Ag Program just came in to  
>our in boxes and competes for our time that same week in January.  
>  
>The first week is the cotton Beltwide meetings, but we might be able  
>to work around that - maybe. The week of 18th will probably begin  
>classes.  
>  
>What is this group's wish for traveling to Thousand Oaks in January?  
>  
>Shay  
>  
>Shay Simpson, Associate Dir.  
>Corporate Relations  
>Texas AgriLife Research  
mobile  
>

Dr. Patricia Klein  
Associate Professor  
Institute for Plant Genomics and Biotechnology

TAMU 2123  
Texas AgriLIFE Research  
Texas A&M University  
College Station, TX 77843-2123

phone: 979-862-6308  
fax: 979-862-4790



**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** TMiller@ag.tamu.edu; AHelms.EXTERNAL.Internet; PLSchuerman.EXTERNAL.Inte...  
**CC:** RVAvant.EXTERNAL.Internet; DBaltensperger@ag.tamu.edu  
**Date:** 6/9/2010 7:00 PM  
**Subject:** Re: Chevron Disclosures

Travis,

As you know, we recently met with Chevron per \_\_\_\_\_ and IP/disclosures. I sent a note to the Pls that had disclosures stressing the importance of writing these up in a timely manner. This message has resonated and we are getting the said disclosures.

As you know we are closing in on re negotiation of the Chevron Master agreement, and Michelle and team need this ammo for their upper mgmt. What is the status of disclosure for \_\_\_\_\_ project? And should I send a similar note? If so to whom?

Thanks,

Bill

----- Original Message -----

From: Helms, Adam  
To: McCutchen, Bill; Schuerman, Peter L.; ahelms@tamu.edu <ahelms@tamu.edu>  
Sent: Wed Jun 09 15:10:25 2010  
Subject: RE: Chevron Disclosures

Alex Thomasson

Adam Helms  
AgriLife Research Corporate Relations  
(mobile)  
979-458-2677 (office)

-----Original Message-----

From: McCutchen, Bill [mailto:bmccutchen@tamu.edu]  
Sent: Wednesday, June 09, 2010 7:16 AM  
To: Schuerman, Peter L.; ahelms@tamu.edu  
Subject: Re: Chevron Disclosures

Who else does the note need to go to from \_\_\_\_\_ beyond Travis to deliver on disclosures?

----- Original Message -----

From: Schuerman, Peter L.  
To: McCutchen, Bill  
Sent: Wed Jun 09 07:10:05 2010  
Subject: Re: Chevron Disclosures

I would think Travis Miller  
Sent from

----- Original Message -----

From: McCutchen, Bill  
To: Schuerman, Peter L.  
Cc: Avant, Bob; Simpson, Shay; 'ahelms@tamu.edu' <ahelms@tamu.edu>  
Sent: Tue Jun 08 22:11:29 2010  
Subject: Re: Chevron Disclosures

Who all do I need to direct the email to?

Bill

----- Original Message -----  
From: Schuerman, Peter L.  
To: McCutchen, Bill  
Sent: Tue Jun 08 08:49:05 2010  
Subject: RE: Chevron Disclosures

Might be good to have a similar discussion regarding the project disclosures.

-----Original Message-----  
From: Jorge Da Silva [mailto:jadasilva@ag.tamu.edu]  
Sent: Tuesday, June 08, 2010 8:29 AM  
To: McCutchen, Bill  
Cc: emirkov@ag.tamu.edu; nmelhout@ag.tamu.edu; jmgould@tamu.edu; Schuerman, Peter L.  
Subject: Re: Chevron Disclosures

Bill,

Your incentive is welcome.

In terms of the my disclosures, one is already down, only 5 more to go... We'll get there!

Cheers,  
Jorge

Jorge A. Da Silva  
Professor  
Texas AgriLife Research - Weslaco  
Soil & Crop Science Department  
Texas A&M University System

On Jun 7, 2010, at 6:18 PM, McCutchen, Bill wrote:

> Eric, Jorge and Nael,  
>  
> Thanks for meeting Chevron in Houston. I can NOT stress enough the importance of delivering the proposed disclosures we discussed and per our agreed timing. Your RD work is incredibly valuable, and if we want to see a potential second round (renewal) of Chevron funding, it is ABSOLUTELY essential to meet our stated commitments.  
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>  
> Sorry to pester you, but it's my job!  
>  
> Bill

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** PLSchuerman.EXTERNAL.Internet; AHelms.EXTERNAL.Internet; ahelms@dsmail.t...  
**CC:** RVAvant.EXTERNAL.Internet; DBaltensperger@ag.tamu.edu  
**Date:** 6/10/2010 6:11 PM  
**Subject:** Re: Chevron Disclosures

Thanks. The disclosure will take 30 mins tops.

---

From: Travis Miller <td-miller@tamu.edu>  
To: Helms, Adam; Adam Helms <ahelms@tamu.edu>; McCutchen, Bill; Schuerman, Peter L.  
Cc: Baltensperger, David; Avant, Bob  
Sent: Thu Jun 10 10:44:37 2010  
Subject: Re: Chevron Disclosures

Bill;  
I alerted the PIs last week with an e-mail. I will follow up to see where they are in this process.  
Travis

>>> "McCutchen, Bill" <bmccutchen@tamu.edu> 6/9/2010 6:47 PM >>>  
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> Bill

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** RVAvant.EXTERNAL.Internet; SSimpson.EXTERNAL.Internet  
**CC:** DBaltensperger@ag.tamu.edu; TMiller@ag.tamu.edu; AHelms.EXTERNAL.Interne...  
**Date:** 6/10/2010 6:43 PM  
**Subject:** Re: Chevron Disclosures

Thank you Shay! I believe Travis is talking with everyone below, and I am trying to reinforce.

Bill

---

From: Simpson, Shay  
To: Avant, Bob  
Cc: ahelms@tamu.edu <ahelms@tamu.edu>; McCutchen, Bill  
Sent: Thu Jun 10 08:20:52 2010  
Subject: RE: Chevron Disclosures

Travis Miller is the correct person to ask this question. The PI's working on disclosures are:

Paul Baumann, Travis Janak

Alex Thomasson and team

Charles Simpson

Mark Burow, Charles Simpson, and Michael Baring

Dick Auld

I don't know if an email directly to them or through Travis Miller would be more appropriate.

Thanks,  
Shay

Shay L. Simpson  
Associate Director - Corporate Relations  
Texas AgriLife Research  
979-845-6315 Office  
Mobile

From: Avant, Bob  
Sent: Wednesday, June 09, 2010 9:43 PM  
To: Simpson, Shay  
Cc: ahelms@tamu.edu; McCutchen, Bill  
Subject: Re: Chevron Disclosures

Shay,

FYI and your response.

Sent from my iPhone

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To: McCutchen, Bill; Schuerman, Peter L.; ahelms@tamu.edu <ahelms@tamu.edu>  
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Subject: Re: Chevron Disclosures

Peter L.

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>  
> Sorry to pester you, but it's my job!

>  
> Bill

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** TMILLER@ag.tamu.edu; SSimpson.EXTERNAL.Internet  
**CC:** AHelms.EXTERNAL.Internet; RVAvant.EXTERNAL.Internet; DBaltensperger@ag.t...  
**Date:** 2/12/2009 5:04 PM  
**Subject:** Re: Chevron Quarterly Review

Shay and Travis,

Is it possible and warranted to integrate some or most of the \_\_\_\_\_ proposal developed by Hague and Smith (Overton) into this RFP. It would significantly enhance our germplasm and breeding efforts?

Bill

---

From: Simpson, Shay  
To: Travis Miller  
Cc: Baltensperger, David; Avant, Bob; McCutchen, Bill; Adam Helms (ahelms@tamu.edu) ; Jackie Slovacek (j-slovacek@tamu.edu); Judy Young (j-young@tamu.edu) ; Peter Schuerman (PSchuerman@tamu.edu); Gould Mike ; jbowman@tamu.edu ; Diane Gilliland ; Patt Junek  
Sent: Thu Feb 12 16:30:41 2009  
Subject: Chevron Quarterly Review

Dr. Miller:

Michelle Long and I talked earlier today about several topics I want to get on your radar:

- 1) Trip to College Station on April 23 or, more likely, 24
  - a. Review the \_\_\_\_\_ proposal jointly with Ceres while Ceres is in town for their review meeting on Sorghum
  - b. Hold a Quarterly Meeting follow-up with the \_\_\_\_\_ team and be able to tour some plots/greenhouses/etc
  - c. Possibly see any \_\_\_\_\_ plots that are in CS (Mike????)
- 2)
  - a. Doug Jones (doug.jones@chevron.com) is the CTV contact for this proposal
  - b. A&M will take PI lead on Technical Area A: Feedstocks Development
  - c.
  - d.

(By the way CTV is going forward with the proposal as well.)

Jean Ann Bowman is an AgriLife technical writer that will be taking all of the pieces and forming a seamless, cohesive pre-proposal and proposal. She is going to want a pre-proposal draft from your group by February 20 (earlier than we previously discussed) that addresses Criterion 1-4 on page 20-21 of the FOA (attached). I suggest that you contact Jean at 458-1140, as soon as possible so she can "meet" you and discuss a few items. The completed pre-proposal is only 3 pages of text.

Please call on me to answer questions or explain any of these topics in more depth.

Thank you,

Shay

Shay L. Simpson

Project Manager, Corporate Relations

Texas AgriLife Research

979-845-6315 Tel

<mailto:n@tamu.edu> shay-simpson@tamu.edu

**From:** "McCutchen, Bill" <bmccutchen@tam.u.edu>  
**To:** mnriaz@tam.u.edu; JMGould@ag.tam.u.edu; TMiller@ag.tam.u.edu; SSearcy@ag.ta...  
**CC:** M\_Nelson.EXTERNAL.Internet; GRiskowski.EXTERNAL.Internet; SSimpson.EXTER...  
**Date:** 3/22/2010 8:49 PM  
**Subject:** Re: Chevron Update

Thanks Bob and good suggestions.

Bill

---

From: Avant, Bob <bavant@tam.u.edu>  
To: jblumenthal@ag.tam.u.edu <jblumenthal@ag.tam.u.edu>; jwrichardson@tam.u.edu <jwrichardson@tam.u.edu>; s-searcy@tam.u.edu <s-searcy@tam.u.edu>; td-miller@tam.u.edu <td-miller@tam.u.edu>; Mike Gould <jmgould@tam.u.edu>; mnriaz@tam.u.edu <mnriaz@tam.u.edu>  
Cc: Helms, Adam; BMcCutchen@ag.tam.u.edu <BMcCutchen@ag.tam.u.edu>; Baltensperger, David; Zak, Kendra; Simpson, Shay; Riskowski, Gerald; Nelson, Michelle  
Sent: Mon Mar 22 09:48:26 2010  
Subject: Chevron Update

On Wednesday evening, I had dinner with Jeff Jacobs (Chevron VP and Michelle's boss) and Paul Bryan (Chevron VP). We discussed a number of issues, but Hawaii came up. Jeff said he was interested in a Hawaii project, but he doesn't see how Hawaiian production can be a big contributor because of acreage limitations. He said his big driver (and Chevron's) will be demonstration of a "pathway to profit". We need to remember this in all of our future proposals to them. Profit might also be defined as "losing as little money as possible on renewable fuels while meeting federal renewable fuels targets"!!!

Based on this intelligence, should we revisit our approach to the Chevron Hawaii proposal that phases it such that it: 1) conducts a feasibility assessment for the target crops, locations, etc. using current Texas production for validation projecting a path to profitability - - Phase 1; 2) conducts demo plots on Hawaii based on the feasibility assessment and produces oils based on the assessment - - Phase 2. Regarding oils, if Hawaii does not have extraction capabilities, what will we do with the castor/jatropha/peanut? The pyrolysis process is more straight forward. Py-oil can be used for biopower now.

Bob Avant

Program Director

Texas AgriLife Research

979/845-2908

(Cell)

bavant@tam.u.edu

From: Helms, Adam

Sent: Wednesday, March 17, 2010 8:32 AM

To: BMcCutchen@ag.tamu.edu; jblumenthal@ag.tamu.edu; Avant, Bob; David Baltensperger; Riskowski, Gary; jwrichardson@tamu.edu; Nelson, Michelle; scapareda@tamu.edu; Simpson, Shay; s-searcy@tamu.edu; td-miller@tamu.edu; Zak, Kendra

Subject: Chevron Edits

I have updated the Chevron files on sharepoint to the version Travis Miller last sent out.

Thanks,

Adam

Adam Helms

Project Manager

Corporate Relations

Texas AgriLife Research

Texas A&M University System

100E Centeq Building A, Research Park

1500 Research Parkway

College Station, Texas 77843-2583

(mobile)

979-458-2677 (office)

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu  
**CC:** tmaldonado@tamu.edu; RVAvant.EXTERNAL.Internet; CNessler.EXTERNAL.Intern...  
**Date:** 12/11/2009 5:28 PM  
**Subject:** Re: Chevron

David,

Confidential please.

Actually Chevron is already providing current support that will be our match from industry for ETF. The good news is they want to renew the current Master Research Agreement for another 4 years starting in 2011. Over the coming year, we will work with Chevron to renegotiate funding priorities.

They are also considering expanding relationship with AgriLife and TEES across a number of other areas to include a potential "Bioenergy Sustainability Center". We can discuss by phone or next time we see each other.

Thanks,

Bill

----- Original Message -----

From: David Baltensperger <DBaltensperger@ag.tamu.edu>  
To: McCutchen, Bill  
Sent: Fri Dec 11 15:47:55 2009  
Subject: Chevron

Bill,

Are they (Chevron) interested in partnering with us on ETF with Tillman?

David Baltensperger  
Professor and Head  
Soil and Crop Sciences  
Texas A&M University  
2472 TAMU  
College Station  
Texas 77843-2474

979-845-3041

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu; JMGould@ag.tamu.edu; DKLunt.EXTERNAL.Interne...  
**Date:** 5/27/2009 5:28 PM  
**Subject:** Re: Committee Recommendation

Best if one of us talks with Ari and explains the situation.

----- Original Message -----

From: Lacewell, Ron  
To: Avant, Bob; Lunt, David; McCutchen, Bill; 'jmgould@tamu.edu' <jmgould@tamu.edu>; Baltensperger, David  
Sent: Wed May 27 17:25:57 2009  
Subject: RE: Committee Recommendation

Do we need to have a conference call to have a consistent response to Miyamota? David I understand you may have visited with him so my confusion is why is it so difficult to respond to the suggestion of the committee or to reject the offer. Seems he is putting us in an awkward position as well as himself.

Ronald D. Lacewell

Assistant Vice Chancellor  
Federal Relations Office  
1500 Research Parkway, Suite 150  
2259 TAMU  
College Station, TX 77843-2259  
Tel 979.862.7138  
Fax 979.845.1527  
Cell  
r-lacewell@tamu.edu  
<http://agofr.tamu.edu>

-----Original Message-----

From: Avant, Bob  
Sent: Wednesday, May 27, 2009 4:04 PM  
To: Lunt, David; McCutchen, Bill; 'jmgould@tamu.edu'; Lacewell, Ron; Baltensperger, David  
Subject: RE: Committee Recommendation

Miyamota called me while I was on vacation last week. I told him to consult with David for his guidance. Having said that, I don't think it is fair for the other submitting faculty if the review committee gives specific guidance on a project. We have already given general instructions on how proposals should be revised/combined.

Bob Avant  
Program Director  
Texas AgriLife Research  
979/845-2908  
(Cell)  
bavant@tamu.edu  
<http://agbioenergy.tamu.edu>

-----Original Message-----

From: Lunt, David  
Sent: Wednesday, May 27, 2009 1:31 PM

To: McCutchen, Bill; Avant, Bob; 'jmgould@tamu.edu'; Lacewell, Ron; Baltensperger, David  
Subject: Fw: Committee Recommendation

\*\*\*\*\*

David K. Lunt  
Assistant Director  
Texas AgriLife Research  
(979) 458-1425  
d-lunt@tamu.edu

----- Original Message -----

From: Seiichi Miyamoto <s-miyamoto@tamu.edu>  
To: Lunt, David  
Sent: Wed May 27 13:28:10 2009  
Subject: Committee Recommendation

We appreciate the recommendation from the review committee to our proposal entitled "Salt Tolerance of Oilseed Feedstocks and Salinity Management Technique." The recommendation we received is simple enough to implement, but in this case, we are running into a complicated situation and in need of some guidance on details.

The primary complication comes from the uncertainty and heavy work load of the Chevron Project (which is on-hold). The scientist in question is designated and has accepted to take the lead on sorghum/cellulosic commodity as well as soil suitability assessment with me, plus development of production guidelines for sorghum and cellulosic commodity with the Extension. I am attaching the task/organizational chart for the Chevron project. The salt tolerance evaluation project involves both greenhouse (Subproject 1), and field tasks (Subproject 2).

All of these tasks are to be completed in 2 years, which I strongly believe to be too optimistic, as he also needs to carry out his switchgrass project funded by RGBI and other activities for Hatch project. We were specifically instructed to beef up the sorghum component for the Chevron project, and I am guessing that this may be a good thing for another project of similar nature in the future.

I checked into a possibility of finding additional research staff on sorghum, but we no longer have other research staff working on this commodity in far west Texas. I also checked with the Centers in other locations, such as Weslaco and Lubbock, but they have no interest in salinity research as it is not their concern. We did, however, receive a positive feedback from Bill Rooney at SCS during the Chevron project development, and his interest was confirmed recently through the third party input. He is willing to provide his line of germplasm for testing purposes, but certainly will not be able to physically run the test at El Paso or at Pecos. Our main concern is who and how this component of the project is going to be managed if the lead scientist is to move to the oilseed crop or to participate in the oilseed crop research under the uncertain, yet his loaded condition. We have been operating with the instruction to maintain the integrity of the large project until further notice under the self-imposed guideline to develop a smaller project from each subgroup, while restricting cross-over. As a PI of both projects, my concern is that any of these changes may simply increase the risk of project incompleteness and management complication, while producing little benefits to the project. We would appreciate the guidance from the committee.

Our current proposal to the Bioenergy Proposal came from the oilseed group with minor modifications. We would have like to include other members, but there is the budget limit. As a PI, I made a call to pick the oilseed group, mainly because this group is ready to go, and has the best chance of completing, and generating additional sources of funds.

One of the focus points is to improve establishment of oilseed crops, and it entails plant stress physiology, soil physics/salt transport, and above all, on-farm water management where we brought in local NRCS folks as they have real expertise. The crop establishment problem to be evaluated is unique to oilseed and certain vegetable crops, but not to sorghum or cellulosic crops.



I have consulted with the key members of this project if they see merits of moving him into the group or invite him for specific tasks while he maintains the lead responsibility in other task areas. I have not gotten very positive response, probably because they feel that the group has sufficient research and extension capability. We have Dr.

Niu for plant physiology, (has a background on water and salt stress), Foster and NRCS folks for on-farm water management, and Drake (a new extension agronomist at San Angelo), and Trostle, both has oilseed crop background for the Extension, plus Iglesias with tree crop experience, and I can manage soil physics/salt transport. The background of this scientist is basically soil chemistry, and his thrust has been mainly on sodicity management, neither of which is a good match with the need of this project at this time. After this initial phase of 2 years, however, I believe that the focus should move to soil suitability assessment, water quality and ground water management, and crop rotation in a manner structured in the Chevron proposal. The scientist with soil chemistry background is perfect fit for soil suitability assessment and crop rotation, and should play a major role at the stage.

These considerations lead to another option which is to provide seed money to initiate salt tolerance evaluation of sorghum genotypes, although this idea is not popular, especially among the oilseed folks. This will help start doing something on sorghum, and eventually help oilseed projects when we deal with sustainability issue. Sorghum is an excellent rotation crop, and its impact on chemistry of saline-sodic soil will fit directly in his expertise. This option can also help carry out the collaborative arrangement with SCS, and can potentially benefit both. At least, this option will help reduce the situation where the role of a key scientist and associated collaborative arrangements change every time we prepare proposal. For this project, the salt tolerance screening test can be performed in a greenhouse with minimal of time and cost. I am not suggesting to use this funding to start a field scale sorghum test programmed for the Chevron project, or to beef up his on-going switchgrass project. With his and Bill's concurrence, I put in this option in the proposal with a stipulation that this task is subject to modification based on the committee recommendation.

I would appreciate it if you would convey these questions, constraints and options to the committee. I would be glad to implement the committee recommendation as best as we can. My interest is simply to get a modest salinity-related project off the ground while minimizing the potential damage to the overall effort. There is an increasing interest in oilseed crops and woody species as our recent survey indicates (the second chart).

S. Miyamoto

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu; Cornwell@tamu.edu  
**CC:** npenn@tamu.edu  
**Date:** 11/5/2009 4:48 PM  
**Subject:** Re: Conference call

I can make 2:45 work. Nancye can you help set a telecon line that we can use? Dave can you forward Tillman this information?

Brett, yes come to the office if you don't mind.  
Thanks,  
Bill

----- Original Message -----

From: Cornwell, Brett L.  
To: Baltensperger, David; McCutchen, Bill  
Sent: Thu Nov 05 15:31:09 2009  
Subject: RE: Conference call

I am free to be anywhere. Bill, do you want me to come to your office?

Brett Cornwell  
Commercialization Services Director  
Office of the Vice Chancellor of Technology Commercialization  
Texas A&M University System  
800 Raymond Stotzer, Suite 2034A  
College Station, TX 77843  
979-845-9699

-----Original Message-----

From: David Baltensperger [mailto:DBaltensperger@ag.tamu.edu]  
Sent: Thursday, November 05, 2009 3:29 PM  
To: McCutchen, Bill; Cornwell, Brett L.  
Subject: Conference call

Brent and Bill,

Dr. Tillman is available tomorrow at 2:45. I am in St louis airport. I can hook up one campus number if the two of you could be at a number or if you want to arrange a bridge that would be great.

David Baltensperger  
Professor and Head  
Soil and Crop Sciences  
Texas A&M University  
2472 TAMU  
College Station  
Texas 77843-2474

979-845-3041

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** DBaltensperger@ag.tamu.edu; Cornwell@tamu.edu; npenn@tamu.edu  
**Date:** 11/5/2009 4:51 PM  
**Subject:** Re: Conference call

Thanks Nancye!

----- Original Message -----

From: Penn, Nancye B  
To: McCutchen, Bill; Cornwell, Brett L.; Baltensperger, David  
Sent: Thu Nov 05 16:10:53 2009  
Subject: RE: Conference call

I have the call on the calendar for tomorrow at 2:45p.m. Please use the dial in information below.

Dial In Number: 888-296-6500  
Participant Code:

\*\*Dr. Baltensperger, please share call in information with Dr. Tilman.

Thanks,  
Nancye

\*\*\*\*\*

Nancye B. Penn  
Assistant to the Director  
Texas AgriLife Research  
113 Jack K. Williams Administration Bldg.  
College Station, TX 77843-2142  
Phone: 979-845-8486 Fax: 979-458-4765  
E-mail: npenn@tamu.edu

-----Original Message-----

From: McCutchen, Bill  
Sent: Thursday, November 05, 2009 3:56 PM  
To: Cornwell, Brett L.; Baltensperger, David  
Cc: Penn, Nancye B  
Subject: Re: Conference call

I can make 2:45 work. Nancye can you help set a telecon line that we can use? Dave can you forward Tillman this information?

Brett, yes come to the office if you don't mind.  
Thanks,  
Bill

----- Original Message -----

From: Cornwell, Brett L.  
To: Baltensperger, David; McCutchen, Bill  
Sent: Thu Nov 05 15:31:09 2009  
Subject: RE: Conference call

I am free to be anywhere. Bill, do you want me to come to your office?

Brett Cornwell

Commercialization Services Director  
Office of the Vice Chancellor of Technology Commercialization  
Texas A&M University System  
800 Raymond Stotzer, Suite 2034A  
College Station, TX 77843  
979-845-9699

-----Original Message-----

From: David Baltensperger [mailto:DBaltensperger@ag.tamu.edu]  
Sent: Thursday, November 05, 2009 3:29 PM  
To: McCutchen, Bill; Cornwell, Brett L.  
Subject: Conference call

Brent and Bill,

Dr. Tillman is available tomorrow at 2:45. I am in St louis airport. I can hook up one campus number if the two of you could be at a number or if you want to arrange a bridge that would be great.

David Baltensperger  
Professor and Head  
Soil and Crop Sciences  
Texas A&M University  
2472 TAMU  
College Station  
Texas 77843-2474

979-845-3041

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** WDugas.EXTERNAL.Internet; MAHussey.EXTERNAL.Internet  
**CC:** AKenimer@ag.tamu.edu; DBaltensperger@ag.tamu.edu  
**Date:** 1/11/2009 1:29 PM  
**Subject:** Re: Confidential Fw: Field Tests

According to Dave, complete transaction has not occurred yet. Dave?

Bill

----- Original Message -----

From: Hussey, Mark  
To: McCutchen, Bill; Dugas, William  
Cc: Baltensperger, David; Kenimer, Ann  
Sent: Sun Jan 11 12:57:07 2009  
Subject: RE: Confidential Fw: Field Tests

I thought that this either had or was going to happen at the same time that PK moved to Horticulture.

Mark

Mark A. Hussey  
Vice Chancellor & Dean  
Agriculture and Life Sciences  
Director, Texas AgriLife Research

(979)-862-4384 Vice Chancellor & Dean's Office  
(979)-845-8486 Director's Office  
mhussey@tamu.edu

-----Original Message-----

From: McCutchen, Bill  
Sent: Sunday, January 11, 2009 11:09 AM  
To: Dugas, William  
Cc: Baltensperger, David; Hussey, Mark  
Subject: Confidential Fw: Field Tests

Bill,

Anyway that we can Keerti officially "moved" into SCS? I think Keerti would benefit from strong leadership and guidance. He has strong scientific skills and would likely flourish under David's leadership.

Thanks,

Bill

----- Original Message -----

From: McCutchen, Bill  
To: 'rathore@tamu.edu' <rathore@tamu.edu>  
Sent: Sun Jan 11 10:45:11 2009  
Subject: Re: Field Tests

Keerti,

We are moving it towards a product but it is not so simple - the biggest being funding for regulatory approval. RNA was just one of many topic areas we covered with both groups.

We are making steady progress.

Bill

----- Original Message -----

From: Keerti Rathore <rathore@tamu.edu>

To: McCutchen, Bill

Sent: Sun Jan 11 08:30:07 2009

Subject: Re: Field Tests

Bill,

If I knew you all were going to meet with Monsanto and CI, I would have liked to participate in the meetings. I know that this project has moved beyond science, but I am also eager to see this technology turned into a product some day.

Best wishes.

Keerti

McCutchen, Bill wrote:

> Much thanks Keerti. Sorry I missed you at meetings.

>

> Bill

>

> -----Original Message-----

> From: Keerti Rathore [mailto:rathore@tamu.edu]

> Sent: Friday, January 09, 2009 8:51 AM

> To: McCutchen, Bill

> Cc: Baltensperger, David; ahelms@tamu.edu; Schuerman, Peter L.; Tom

> Wedegaertner; Reed, Janet N; Kater Hake

> Subject: Re: Field Tests

>

> Bill,

>

> Yes, we will have enough seeds from one line to do a limited field study

>

> this year. I had a dinner meeting with Tom Wedegaertner and Janet Reed

> on the 7th in San Antonio. We also discussed field trial. Janet has

> some contact who can advice on how easy or difficult the process is to

> get a permit to conduct field trials. She will be in Germany next week,

>

> but after her return, she can get some information on this. I feel that

>

> if it turns out to be a complex process, then we should certainly get

> some help from an outside consultant.  
>  
> Keerti  
>  
>  
> McCutchen, Bill wrote:  
>  
>> Keerti,  
>>  
>> Are u still looking to conduct field trials this year with RNAi  
>>  
> gossypol cotton? If so have we made any headway of regulatory approval  
> process? We might need to hire consultant to help out.  
>  
>> Bill  
>>  
>>  
>  
>  
>  
>  
>

**From:** "McCutchen, Bill" <bmccutchen@tamu.edu>  
**To:** JHurley@tamu.edu; PLSchuerman.EXTERNAL.Internet; dick.auld@ttu.edu; PLSc...  
**CC:** SSimpson.EXTERNAL.Internet; KZak.EXTERNAL.Internet; j-moore@tamu.edu; AH...  
**Date:** 5/4/2009 5:27 PM  
**Subject:** Re: Confidential Please RE: Castor Update & Seed IncreaseQuestions

Travis,

Thanks much. I would also like to include:

\* an overview (from Janie or Peter) on our agreement and obligations with Chevron;  
\*

\* potential IP opportunities,

Thanks,

Bill

---

From: Travis Miller <td-miller@tamu.edu>  
To: Steve Brown <RSBrown@ag.tamu.edu>; Avant, Bob; McCutchen, Bill; Schmitt, Brian C.; Calvin L Trostle <c-trostle@tamu.edu>; Hurley, Janie C.; Mike A Foster <ma-foster@tamu.edu>; Schuerman, Peter L.; dick.auld@ttu.edu <dick.auld@ttu.edu>  
Cc: Baltensperger, David; Sean Wallace <SMWallace@ag.tamu.edu>; Adam Helms <ahelms@tamu.edu>; j-moore@tamu.edu <j-moore@tamu.edu>; Zak, Kendra; Simpson, Shay  
Sent: Mon May 04 17:11:17 2009  
Subject: Confidential Please RE: Castor Update & Seed IncreaseQuestions

Kendra has the meeting set up for 11:30 a.m. to 1:00 p.m., Thursday, May 14. The meeting on campus will be in 101 Centeq. The conference line is 888-296-6500 and pin

I need agenda items from you. Those that I think of include:

\*

\* Other topics: please send them to me.

Travis

>>> "McCutchen, Bill" <bmccutchen@tamu.edu> 5/4/2009 11:25 AM >>>

Travis and all.

I believe an internal meeting is the best way forward at this time. We can then identify priorities, action items and strategies that will inherently link CTV.

Can you work with Bob's office –either Shay or Adam – and Jackie to arrange for a conference call in the very near future? In addition, can you propose a tentative agenda for this group to discuss? To that point one of the areas/opportunities that we need to discuss is outlined in the message below and attached



document.

Here is a request from Kish Gishore (former DuPont CTO) Dear Bill .. I am following up on our dialog on Sunday. I am sorry I could not send you the abstract on sunday nite since our email system was down and I got very busy with our partners meetings yesterday and today. In any case, please review the attached doc and if you have any comments, please let me know. If you feel comfortable, you can share it with breeders and other key players you feel should be involved. If you feel we should involve Chevron, please let me know who we should contact and I am happy to do so. Many thanks for your participation. Best wishes,  
Kish

Thanks for leading Travis.

Bill

--

Bill F. McCutchen, Ph.D.

Associate Director

Texas AgriLife Research

Texas A&M University System

113 Jack K. Williams Administration Building

2142 TAMU College Station, TX 77843-2142

979-845-8488 Tel

979-458-4765 Fax

bmccutchen@tamu.edu

---

From: Travis Miller [mailto:td-miller@tamu.edu]

Sent: Monday, May 04, 2009 10:35 AM

To: Steve Brown; Avant, Bob; McCutchen, Bill; Schmitt, Brian C.; Calvin L Trostle; Hurley, Janie C.; Mike A Foster; Schuerman, Peter L.; dick.auld@ttu.edu

Cc: Sean Wallace; Adam Helms; j-moore@tamu.edu; Simpson, Shay

Subject: Re: Castor Update & Seed Increase Questions

We are seeing pressure for castor from several fronts and we will see pressure against castor likewise. It would pay to have an organized process and a plan on how we want to proceed. The meeting in question illustrates the point. A company wants to contract 5- to 7 thousand acres but no supply of planting seed is available. Calvin has had vision on this, increasing seed of Hale from GRIN, but we need to go further than this. I agree that, if Brigham is the vehicle we want to go forward with, this is the year to increase seed. A call/meeting to get some better planning on the ground is in order. Do we want to include CVT on this?

Travis

>>> "McCutchen, Bill" <bmccutchen@tam.u.edu> 5/1/2009 6:07 PM >>>

Might be good to have a "castor" meeting soon. I have been approached by another company that wants to discuss doing complete genome and mapping of castor, to include potential transgenics for removing etc, etc. They would be willing to partner with Chevron as well.

Bill

---

From: Auld, Dick <DICK.AULD@ttu.edu>  
To: Calvin L Trostle <c-trostle@tam.u.edu>; Steve Brown <RSBrown@ag.tam.u.edu>; Avant, Bob; Mike A Foster <ma-foster@tam.u.edu>; Travis Miller <td-miller@tam.u.edu>; Mike A Foster <ma-foster@tam.u.edu>  
Cc: Sean Wallace <SMWallace@ag.tam.u.edu>; Adam Helms <ahelms@tam.u.edu>; McCutchen, Bill; Jaroy Moore <j-moore@tam.u.edu>; Simpson, Shay  
Sent: Fri May 01 13:52:40 2009  
Subject: RE: Castor Update & Seed Increase Questions

Calvin,

Mike Foster has several hundred pounds of Hale that we helped him hand harvest from the back-up increase at Pecos this past fall. That seed increase looked excellent and was very phenotypically uniform. I have asked him to provide some land for the Brigham - 2009 increase this year.

I agree with Bob that we cannot be puppets for these promoters and that our primary responsibility is to give our growers a balanced perspective on both the advantages and disadvantages of a particular crop enterprise. I have heard you give several extension talks on oilseed crops and believe you do an excellent job of balancing these responsibilities. I hope this rash of promotion for castor does not kill its future potential expansion. Thanks for taking the lead on the extension education on this crop.

Dick Auld  
Rockwell Chair  
Plant & Soil Science  
Texas Tech University

Texas AgriLife Research  
Phone: (806) 742-5704

From: Calvin L Trostle [mailto:c-trostle@tam.u.edu]  
Sent: Friday, May 01, 2009 1:31 PM  
To: Steve Brown; Bob Avant; Mike A Foster; Travis Miller; Auld, Dick  
Cc: Sean Wallace; Adam Helms; Bill McCutchen; Jaroy Moore; Shay Simpson  
Subject: RE: Castor Update & Seed Increase Questions

Bob & Colleagues,

Bob, thank you for your comments. I will note responses below beginning with \*\*\*.

Calvin

Calvin Trostle, Ph.D.  
Associate Professor, Extension Agronomy  
Texas AgriLife Extension Service/Texas A&M System--Lubbock  
1102 East FM 1294  
Lubbock, TX 79403  
Phone: (806) 746-6101  
FAX: (806) 746-4057  
E-mail: ctrostle@ag.tamu.edu

>>> "Avant, Bob" <bavant@tamu.edu> 4/30/2009 9:10 PM >>>  
CONFIDENTIAL DO NOT DISTRIBUTE EXTERNALLY

Calvin,

Here are my brief comments:

I would like to hear suggestions on the combine issue. Do we need to find a dedicated combine? Is one available in the system or would we need to buy one? If so any suggestions on where to get one?

\*\*\*This depends on how much castor we actually expect to handle. It could be limited in time to 1-2 years until a company takes over production and maintenance of the seed, possibly under the direction of Texas Foundation Seed Service. The TFSS combine we used is one that can be cleaned out easily by 2-3 people in a couple of hours (and is only used for seed increases), which was in contrast to other options. It had a platform or conventional header with reel, which means we had much higher shattering losses though much of that was due to how dry the crop was. Harvesting a couple acres for seed is a simpler issue in contrast to having a machine that you can harvest plots with (small areas as little as 2 rows X 20', accurate readings, preferably weighing equipment in addition to being able to collect small samples). In the case of the former, I am not sure that we'd need a machine for more than 2010 and 2011 to handle possible increases. Going forward if there was going to be hundreds of plots of castor research around the state then a dedicated machine would help. All my plots (and others) are currently harvested by hand then ran through a stationary thresher. In 2007 we tried our small Hege 2-row plot combine that we use on sorghum, wheat, etc., but it didn't do a very good job threshing, and the small platform header does nothing to envelope the plants before cutting hence there was major shattering of capsules on the ground. Furthermore, my crew cleaned the machine out well before we harvested our

2008 on-farm wheat plots but there were still a couple hundred seed we missed, spilling them out in a farmer's field. We cleaned it up as best we could, and we went to the field twice during the summer to ensure we saw no castor plants growing. Also, because I didn't think that through, we have to take all on-farm grain we thresh out with us lest we have few lingering castor seed show up in the sorghum or wheat.

Re the seed. Could some be crushed so we can get some oil to Chevron and hold back some seed for planting or do we need all for planting?

\*\*\*After talking to Steve Brown at Texas Foundation Seed Service, we probably should not crush this seed since it is very close to Foundation/Certified class. How many gallons would they like to have to work with? It might be better to consider using some of the Hale that Dr. Auld has, which may not have as high a level of certainty about genetic purity (Hale).

Re seed increase if done under our license and/or direction, we would need legal protection, chain of custody, training and supervision, and a documented safety program.

\*\*\*I visited with Steve Brown about this as well. Steve said their agreements are flexible in terms of whether they pay someone to grow, or provide seed, etc. I believe the grower in Yoakum Co. is probably worth visiting with, but to put this grower in a good position, planting about May 20 would be optimum, and not later than June 10 due to long maturity.

Re Dow (or another seed company) we need to have some discussions whether or not it is Dow. And how all this fits (or doesn't fit) with Chevron.

\*\*\*I learned that Triumph Seed Co. is not currently at Texas Seed Trade Assn. member, but no indication that they are in poor standing with anyone. There are certainly other seed companies that could handle this if they felt it was an opportunity. Triumph's connection to Dow Chemical could be advantageous, give Dow a little more partnership. By the way, the seed increase of Hale that I have was conducted under the State of Texas bioenergy funding, not Chevron.

A final comment about the negative comments received from the meeting at St. Lawrence. Our job is to deal in facts and not be promoters. Especially with biofuels whether it is algae, castor, energy sorghum, etc., we need to be very careful that we don't oversell. I would always rather receive complaints from being technically correct rather than mis-leading producers and industry. Sounds to me like you laid it on the line.

Would you like to set up a conference call to discuss these issues in detail?

\*\*\*Let's see what other feedback we have. A couple might be interested. Auld, Brown, Miller, Avant & staffer, are probably the ones along with me that could work this out. The immediate issues are 1) do I try to further increase some of the Hale we have, and/or 2) the possibility of an agreement with someone (seed company, farmer) to increase the seed. I'd like to think that we would have enough castor seed to plant 5,000 acres in 2010. That would represent 20 lbs. X 5,000 acres = 100,000 lbs. of seed (before