



## ONTARIO BIOMASS PRODUCERS CO-OPERATIVE INC.

*for a cleaner tomorrow*

by Jamie Fisher

### President's Report

I am looking forward to this year. Finally we are engaging end users in purchase contract talks. Regardless of the outcome of those talks this is a huge step forward. OBPC has worked hard to be prepared for this moment. I think we have the right balance between production know how, logistics, market knowledge and actual agricultural biomass supply. We are set to ramp up the supply in response to a market without creating a glut before there is a market. OBPC has long recognised that growers will not grow until there is a market and end users will not come until there is supply hence the need for an organisation such as ours. In this light OBPC is well positioned to make these contract talks successful.

OBPC has and continues to invest in market development. We are involved with agronomic projects for both switchgrass and miscanthus including evaluating new switchgrass varieties and optimizing miscanthus planting. In addition projects on biomass for bedding and biomass for anaerobic digesters as well as biomass for thermal heat or CHP (combined heat and power) are progressing. Other projects ranging from Cardoon (new biomass crop) to logistics to industrial uses of biomass are in the works or being developed and will help determine future direction. Reports on some of these projects will be presented at the Ag Biomass Day on March 27. This Biomass event is part of OBPC's efforts to raise the profile of agricultural biomass, as well as educate and share information, which is also important in terms of market development.

As I review the above paragraphs I cannot help but think of the hard work and dedication of the people who are making it happen. Many thanks to the Board of directors past and present who have and continue to work hard to not only oversee the business of OBPC but contribute personally in many of these projects. Special thanks to our Board advisors for the expertise they share with us as well as their many contributions and support for biomass. I also recognise many people outside of our organisation have contributed to our success and biomass in general. Special recognition goes to Dr Gord Surgeoner whose contributions and support has been "game changing". I would also like to recognise and thank Charlie Lalonde and the OFA for their support at the Canadian Outdoor Farm Show. Many thanks all.

The OBPC Board has 2 new directors. Welcome to Larry Davis and Glenn Young. The Board will miss the enthusiasm and commitment of Claire Gunnewiek who is not continuing as a director. Thanks Claire. Also thanks to Meaghan Richardson who has been the Board secretary. While Meaghan will not be continuing as secretary we look forward to her continued involvement with OBPC and her assistance with projects. OBPC has engaged Grey County Agricultural Services to fulfill the role of secretary and perform other support tasks for OBPC. We look forward to a mutually beneficial relationship with GCAS.

Many thanks and I hope to see you March 27

James Fisher

For more information about our organization, please visit the OBPC website, where you will find information of virtually all aspects of Ag biomass. We make an effort and inform our followers with Upcoming Events, highlight the most relevant News of the biomass industry and provide updates of our OBPC projects.

Digital versions of our [newsletter](#) can also be accessed directly on our website.

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by Urs Eggimann

## Ag Biomass Day

Ontario Biomass Producers with the close cooperation of OMAFRA, UofG, REAP-Canada and many others will stage a full day event on March 27 at 95 Stone Rd W. in Guelph (details on OBPC website).

Our 3 major segments are Grower Experiences and Innovations (2014 & 2015 Ag research activities), Animal Bedding and Biomass Markets.

The event will focus on future biomass production growth, including the drive for much more acreage and active biomass producers.

As a result of the serious straw shortage in our province we have dedicated one segment exclusively to animal bedding.

In our Biomass Markets segment we have a range of short presentations planned, which will shed some light on near term and future biomass market opportunities.

[YouTube Event announcement](#)

[Ag Biomass Day 2015 - Detailed Agenda](#)

[Information & Driving Directions to 95 Stone Road West](#)

### Ag Biomass Day 2015 - 95 Stone Road W., Guelph, ON, March 27, 2015

8:30 - 9:00	Coffee and Registration	
9:00 - 9:05	Welcome and Introduction	James Fisher, OBPC; Jim Todd, OMAFRA
9:05 - 10:35	Grower Experiences & Innovations	
	OBPC Switchgrass Research Project	Eggimann Farms: Urs Eggimann Nott Farms: Don Nott Fidale Farms: James Fisher 30
	Miscanthus Rhizome Harvest and Planting	All Weather Farms: David Smith 10
	Ag Biomass and Soil Health	Bill Deen, University of Guelph 20
	Switchgrass Seed Breeding Program	Roger Samson, REAP-Canada 25
	Introduction of Poster Exhibition	Bronwynne Wilton, University of Guelph 5
10:35 - 10:50	Morning Break / Poster Exhibition	
10:50 - 11:05	Biomass Crops Advance Payment Program	Don LeDrew, Agricultural Credit Corporation
11:05 - 12:00	Animal Bedding	
	Livestock Uses	Jake DeBruyn, OMAFRA 20
	Feed Uses	Marlene Paibomesai, OMFARA 20
	Bedding Testimonials	Nico Slik, large livestock operation using switchgrass, St. Marys 5 Marc deJong, user of miscanthus for poultry operation 5 Rudy Zubler, organic dairy farmer using switchgrass, Ridgetown 5
12:00 - 1:00	Lunch & Poster Exhibition	
1:00 - 3:45	Biomass Markets	
	Switchgrass for Mushroom Substrate	Bill Stevens, Mushrooms Canada 20
	Aerobic Digestion - Biogas	Chris Ferguson, Carbon Control Systems Inc. 15
	Mulching	Mahendra Thimmanagari, OMAFRA 15
	Q&A with Biomass Producers	OBPC Board & Advisors 25
2:15 - 2:30	Afternoon Break / Poster Exhibition	
	Biomass Market Opportunities:	
	Cellulosic Ethanol	Rachel Murdy, IGPC Ethanol 15
	Combustion	Terrence Sauve OMAFRA 15
	Combined Heat and Power	TBA 15
	Bioplastics / Car Parts	BDDC 15
	Densification, Advanced Biomass Fuel	Animesh Dutta, University of Guelph 15
3:45 - 3:55	OBPC Biomass Growth Strategy	Urs Eggimann, OBPC
3:55 - 4:00	Closing Remarks	Jim Todd, OMAFRA; Urs Eggimann, OBPC

After the completion of the official program we will have an **Informal Networking Session** with refreshments. Everyone is encouraged to participate.

by Urs Eggimann

## Encouraging Signs on the Biomass Front

With the current shortage of wheat straw we see a remarkable interest in purpose grown biomass, like switchgrass and miscanthus. Livestock farmers in particular are affected by the straw shortage, and they see an urgent need to look for animal bedding alternatives.

For a small group of farmers switchgrass has been the bedding option of choice. They had recognized the favorable characteristics of switchgrass straw and clearly preferred it over wheat straw or any other bedding material. As switchgrass production in Ontario is still at a very modest level, only very few farmers had access to this type of bedding. Oddly enough, very few farmers were keen to venture with an unknown product and switchgrass was no easy sell as a bedding material in the early goings.

Traditionally, Nott Farms, the leading switchgrass producer in Ontario, never managed to sell bedding material immediately after the wheat harvest and things would only start to pick up in March of the following year. Times have changed drastically last year: by end of October, Nott Farms were sold out, and an inventory of over 3'000 big square bales of switchgrass straw had found a place for animal bedding.

This situation has taught us a few lessons and inspired us to take some action. It is quite obvious that there is a clear lack of practical animal bedding information for farmers, especially including purpose grown biomass crops, like switchgrass and miscanthus. With the strong leadership of

the livestock division of OMAFRA and the University of Guelph, OBPC will come up with practical animal bedding information (joint KKT grant application).

Since animal bedding will become a solid portion of future biomass applications, OBPC encourages farmers with livestock to become switchgrass growers and initially use the biomass directly for their own operation. Not having to worry about markets at an early stage reduces the risk for growers drastically and gives them a chance to become completely comfortable with the new crop and get ready for larger biomass opportunities down the road. OBPC sees a need for much more biomass acreage to meet future expectations of the industry, relying on Ag biomass. Many farms with modest start-up biomass acreage will add up to a respectable biomass base, which will demonstrate to the industry that farmers will be ready for primetime.

To create a profitable biomass industry in our province we need to step up to the plate and allocate a lot more acreage for biomass. OBPC needs to increase its membership base substantially to be able to manage upcoming projects.

The farming community in Ontario has a tremendous opportunity to build a new sustainable revenue stream. Sitting on the sideline and wait for the perfect time to join the party is not getting us anywhere. We have a huge goal and only the sum of many individual efforts will lead to success.

by Kate Withers, Phd

## Visit to the biomass grass test sites overseen by Indian Agricultural Program of Ontario

On Monday September 29th, 2014 James Fisher (President of the Ontario Biomass Producers Co-operative (OBPC)) and Kate Withers (Advisor to the Board of Directors of the OBPC) visited two biomass grass test sites that were established in 2013 through a program developed by the Indian Agricultural Program of Ontario. The program "Assessing Biomass Potential on First Nations" was developed to determine, on a pilot scale, whether purpose-grown agricultural biomass is economically sustainable on naturally drained soils on First Nations.

The funding for this project has been provided by Agriculture and Agri-Food Canada through the Agricultural Adaptation Council in Ontario and the Aboriginal Agricultural Initiative. The tour was hosted by Grant Edwards, Farm Management Advisor to the Indian Agricultural Program of Ontario, Barry Hill of Hillsfield

Farms, and Graham Hoogterp of Tahgahoning Enterprises Incorporated (TEI). The test sites are; Hillsfield Farms on Six Nations of the Grand River, managed by farmer Barry Hill, and Walpole Island First Nation (WIFN), managed by Tahgahoning Enterprises Incorporated. The purpose of the visit was to provide an agronomic assessment of each site and discuss future biomass markets. James and Kate made agronomic recommendations aimed at rectifying weed pressure issues and an observed nutrient deficiency. It was a great tour, and we look forward to hearing about Barry Hill's forthcoming yields and TEI's future economic opportunities. More information about this project can be found in a report titled, "ASSESSING PURPOSE-GROWN BIOMASS PRODUCTION ON FIRST NATIONS", which was prepared by Doug Macpherson in 2013.

by Urs Eggimann

## New Start-up Producer Membership

The steep price of our Producer membership (7 shares @ \$100) can be a deterrent for farmers, who are not quite sure, if purpose grown biomass could be a reasonable fit for their operation.

OBPC promotes **modest biomass acreage on many farms** to build a sufficient biomass production volume and meet the needs of expected projects. This option gives new biomass start-ups a chance to get comfortable with the new crop without entering major risks. To achieve this objective, OBPC recognized the need to come up with a membership structure to support this start-up strategy.

### Start-up Producer membership:

- Full access to OBPC website, i.e. *Members Only* section
- Opportunity to get agronomy advice from experienced OBPC growers
- Full access to OBPC events
- Annual membership fee of \$100
- Upgrade option at any stage to full Producer membership
- No voting rights (shareholder privilege)
- No guaranteed access to large biomass projects (shareholder privilege)

In the future the current Individual Associate membership will be restricted to **non-farm** applicants. The Start-up Producer membership gives farmers an attractive option to get the necessary access to biomass production how-to information.

It is expected that a majority will eventually upgrade to a full Producer membership level.

### We are currently exploring:

Marketing opportunities  
 Production of purpose grown biomass crops  
 Harvesting of crop byproducts  
 Transportation and storage issues  
 Generating or co-generating electricity form biomass  
 Structure and financing options for a biomass production co-operative  
 Densifying of biomass (ie: pelleting, briquetting)  
 Biomass heat energy  
 Biomass as a feedstock for the productions of fuels  
 Biomass for the production of composite fibre boards  
 Biomass for the production of plastic products  
 Animal Bedding (dairy, pet market etc)  
 Biomass as a substrate for mushroom farming  
 Quality mulch for landscaping and vegetable farming

by Lorie Smith

## Meet the New Secretary

In June of 2014, Grey County Agricultural Services Centre accepted the contract to conduct administrative duties for Ontario Biomass Producers Co-op. Having Biomass in our office is an extremely “good fit” as some of the other organizations that we work with include: Ontario Forage Council, Georgian Soil and Crop Improvement Association and Alternative Land Use Services Grey Bruce. We also co-ordinate the highly successful seven day agricultural conference, Grey Bruce Farmers Week.

What is Grey Ag Services? After changes in government services to the local agricultural industry in the year 2000, the need for a support system for agricultural organizations and the farming community became apparent. Ray Robertson worked with local agricultural organizations, individual farmers and Grey County Council to create Grey Ag Services. It is a grass-roots, farmer-driven initiative. We are a not-for-profit organization created to service and fulfill the needs of the local farm community. We are here to: answer general inquiries; provide factsheets and publications; offer a roster of winter courses each year; and provide boardroom facilities to rural organizations for their meetings. We also host a very informative website. We provide a strong central focus for agriculture in Grey County and beyond.

When you call in with a question for the Ontario Biomass Producers Co-op, you will most likely hear the friendly voices of Patricia Ellingwood or Dawn Robertson. They will conduct the majority of the duties for Ontario Biomass. Lorie Smith will provide guidance to this team.

We are delighted to be working with all of you. We look forward to working with you to expand the opportunities for biomass across Ontario. If you ever have any questions or comments, please let us know.

For more information on the services provided by Grey County Agricultural Services Centre, visit our website:

<http://www.greyagservices.ca/>



### Who we are

The Ontario Biomass Producers is a group of Ontario farmers exploring the sustainable production and marketing of biomass crops.

Non-farmers who are engaged in the biomass industry can participate at OBPC with an associate membership.

For information, please email

[memberships@ontariobiomass.com](mailto:memberships@ontariobiomass.com)

by Urs Eggimann

## Clinton Field Day Wrap-up

Our Clinton Field Day as well as the COFS in Woodstock provided great opportunities to get valuable media coverage of our group and biomass in general. We managed to get 2 articles by Jeff Carter in the Ontario Farmer ([Page 1](#); [Page 2](#)), a 3-page coverage by Keith Roulston in [Rural Voice](#) (Don Nott made the Front Page!) and with our presence at the COFS we got 2 interviews by Rogers TV. We also expect an in-depth coverage of the Clinton Day by Biotalks.ca.

Photo & Caption Courtesy of Ontario Farmer



Don Nott says switchgrass, sold in bale form, is worth about seven cents a pound. The price may even be higher if expected shortage of wheat straw bedding materializes by spring.

Our event was the result of a fine team effort of OBPC, OFC, Switch Energy Corp, OMAFRA, REAP-Canada, University of Guelph and OAFT. The solid attendance and interactive participation of everyone at the Clinton Day greatly contributed to a successful event. Mother Nature was really on our side and let us complete our event before a major thunderstorm accompanied us on our ways home.

Congratulations to Ian McDonald for being such a professional and skillful Master of Ceremonies as well as to all the speakers and presenters for their fine contributions. Gord Surgeoner's "barn burner"

keynote speech summed up a lot of essential points in a very short time and contributed greatly to get our biomass movement on a higher level.



Photo Courtesy of Rural Voice

*Dr. Gord Surgeoner  
It's a low cost, low risk crop.*

We have posted all [Clinton Field Day presentations](#) on the OBPC website and encourage you to access the material, which interests you the most. In order to allow efficient access, the presentations were all converted to a lower resolution than the originals.

To be able to step up to the new challenges and be the leader on the production side of the biomass industry in Ontario, our group still needs to grow substantially. To do this, we need a lot more people, who are willing to become active biomass promoters and support us in our efforts. The bottom line is very clear, we need a lot more members and find ways to finance a much needed professional organizational structure.

Your help, by promoting our group and become active biomass players, will be a decisive factor to achieve our goals.

Photo Courtesy of Rural Voice



### OBPC Membership Options

We offer different types of memberships, Producer memberships (Co-op shareholders) and Individual or Business Associate memberships. All types of OBPC members can access privileged information in the Members Only area of [our website](#).

If you have any questions please contact us [via email](#) for further information.

[Business Associate Membership Form](#)  
[Individual Associate Membership Form](#)  
[Producers Membership Form](#)  
[Start-up Producers Membership Form](#)

by Meaghan Richardson, P.Ag

## Why Switchgrass Makes Sense for Forage Growers

Switchgrass is a natural fit for forage growers looking to diversify their crop production and market opportunities. The Ontario Biomass Producers Co-operative is providing opportunity for education, promotion and end marketing for purpose grown biomass crops such as Switchgrass and Miscanthus, and as such our operation made the decision to buy a share in order to take part in what we see as the future for bio – energy crops in Ontario.

Switchgrass is a perennial crop that once established can provide over twenty cropping seasons with proper management. The crop does take some time to establish, and is best established by under seeding with spring wheat – a practice that many forage growers are familiar with such as under seeding oats to hay or clover to winter wheat. The Ontario Biomass Producers Co-operative has been working on research with the Ontario Forage Council to determine best management practices for establishment, weed control and storage, all of which are very much needed to further the grower's ability to grow the crop successfully.

The fit that we as growers identify with switchgrass is the perennial nature of the crop and that planting and harvest requires the same equipment that we already have for our hay operation. This means no additional capital costs for equipment and therefore minimal risk to enter the market. Switchgrass is cut in the fall, left to leach nutrients over the winter (another big plus for this grower) and is baled in the spring at very low moisture. This means that we can use our discbine later in the fall after hay season is complete to cut the stand of switchgrass and then in the spring we can get our baler in the field sooner, baling switchgrass prior to hay season beginning (also a great way to work out any glitches with equipment prior to a good weather stretch in hay season). Most bioenergy markets seem to be looking for large square bales, luckily, in farming communities across Ontario there is usually a custom bailing outfit that would be pleased to bale up switchgrass for growers and while we have a large square baler ourselves, we don't see this as a limiting factor for new switchgrass growers in Ontario.

The crop requires nitrogen addition but the leaching of the fall cut biomass helps with nutrient retention in the field, and the leaves that are lost go back into growing the topsoil. Often touted as a crop for marginal land, we may try some establishment on some of our marginal land, but as with any crop we would expect that establishment and yield may not be as good as on better classed land. Forage producers have had concerns about the endangered Bobolink and the nesting patterns in hay and pasture fields. While nothing has been regulated to date, there has been a general outcry from growers at the notion that we may be regulated in some fields to wait to cut into late July – an unacceptable notion based on both marketability

of hay/ forages, quality of hay and business economics. Switchgrass production may provide the habitat for these birds, due to the late fall cutting that forage producers need to continue with their forage operations.

The hay and forage market has seen a general price increase in the last few years (much of which appears to be due to weather and availability), but it never fails there are a few people selling way lower than what the average market. Unfortunately this is not conducive to a viable and thriving hay/ forage market for all producers. The Ontario Biomass Producers Co-operative was formed to make sure that by creating quality standards and pricing platforms, growers will get a reasonable dollar for their crop and those developing biomass markets understand the proper pricing of the crop. Growing switchgrass as a co-operative shareholder will open doors that we don't feel would have been open to us as producers going alone.

End market use of switchgrass can be very complementary to those already producing forages. There are on farm markets such as bedding, feed (hay and silage), pellets and there are off farm market potentials in energy, fuel, plastics and so forth. Starting out with a small acreage of switchgrass would allow a forage grower to try their hand at biomass production and use the crop for bedding or feed for their own animals or sale to local farms. Switchgrass is testing comparable or better than wheat straw in many barns and does not remove the same nutrient percentage as does wheat straw due to the leaching time in the fall - spring. Growers may also wish to plant a switchgrass acreage to keep their options open, for instance, when much of Ontario saw a drought a few years back, switchgrass growers harvested the crop green and sold it as hay for livestock markets. The OBPC is hard at work making market opportunities available to growers and the multi-use possibilities of switchgrass planted now allows growers to be ready for the bioenergy markets of the future.

We know that the road ahead for biomass will have some bumps in the road as we develop production practices, and tweak the agronomics but these are nothing that farmers haven't dealt with before. The potentials for switchgrass now and into the future are worthy of some considerable attention. Forage growers have an advantage to be successful with biomass with this crop as the knowledge and the equipment are already there in the farm operation. Growing a small acreage of Switchgrass will increase the diversity of the farm operation and provide that window of opportunity to enter into a properly priced biomass market of the future. Through involvement with the Ontario Biomass Producers Co-operative Inc. and with the forage experience and equipment already on farm we plan to take full advantage of this natural fit, making switchgrass a crop that will impact the future of our farm.

by David Smith, All Weather Farming, Port Ryerse, ON

## Progress on Miscanthus Rhizome Harvesting and Replanting

At All Weather Farming Inc., we have been growing miscanthus for six years now. This coming season will be a break-through year, as we'll be rolling out a complete system of rhizome harvest, cleaning, and replanting that will make a significant impact on reducing establishment costs.

But first, some history.



In 2009 we planted one acre of miscanthus. Initially we wanted biomass to fuel the boiler for our greenhouse operation. Using a standard transplanter, we planted rhizomes from the UK to establish our first nursery stock. We soon realized the cost of rhizomes and labour involved were the limiting factors.

Over the years we planted more acres and began to modify equipment and then build equipment, not just for planting, but also for harvesting the rhizomes for replanting. We are now at the point where our dedicated nursery production will lower the cost of producing rhizomes.

Our rhizome harvester is a modified strawberry plant harvester. Miscanthus plants produce a large mass of roots that can make a 2-4 ft. wide clump under the plant. When transplanting rhizomes to establish a new field you need to dig up the clump, clean off the dirt and root hairs, and cut up the rhizomes into finger-length units. Our new harvester, which we've run trial runs with this fall, has successfully completed all these steps in one pass on one piece of equipment. We have secured Growing Forward 2 money from the Federal and Provincial governments to improve the system and to prepare it for commercial operation this coming year.

Rhizomes are harvested from sandy soil (easy digging). Our nursery is currently at 10 acres. Based on our trial runs with our harvester, we estimate that we will be able to produce enough rhizomes to plant 30 – 40 acres, per one acre of nursery harvested.

One of the challenges of harvesting rhizomes from sandy

soil is that they have to be harvested as soon as the soil starts warming up, prior to sprouting, so that we don't damage that year's growth. In our area the sandy soils hit 3-4 °C at least 2-4 weeks before the nearby clay soils, where we would like to re-plant the rhizomes. During that 2-4 week period the rhizomes need to be preserved, but there is no established way of doing that. So we have initiated a research plan with Dr. Max Jones from the Department of Plant Agriculture at the University of Guelph. The proposed project will investigate methods of storing and preserving the rhizomes after harvest so that they can successfully be replanted after several weeks and not succumb to injury, dehydration, or break-down. We expect to hear whether the research will be funded early this spring.

Once the rhizomes are harvested and ready to replant, our miscanthus planter, based on a modified potato planter, handles individual finger-sized rhizomes and places them in the soil without manual handling. This planter is capable of no till planting after corn and soybeans, adding nutrients to seed furrow, packing and covering the rhizomes. Our Growing Forward 2 grant is also supporting the final work to commercialize this unit.

This spring we expect to demonstrate our harvester and planter in operation. The result will be a significant reduction in miscanthus establishment costs. We are hoping to see establishment costs of \$1,500.00 per acre, based on our most recent trials (based on 10,000 rhizomes per acre). This will be a huge leap forward for the Ontario marketplace and will set in place a convenient commercially viable pathway for broad planting of miscanthus in the province.



View [David Smith's Farm Smart Presentation](#)

by Urs Eggimann

## Field Scale Switchgrass Research

The Ontario Forage Council was very generous by allocating some of their research funds for switchgrass research. An approved grant under the Ontario Farm Innovation Program (OFIP), administered by the Agricultural Adaptation Council (AAC), gave OBPC an opportunity to perform field scale switchgrass research during 2014 and 2015.

The major objective of this project is to deliver applicable practices and advice to switchgrass producers. Considering the relatively small grant amount this is an extremely ambitious project. We identified the most significant gaps in the agronomy and logistics of switchgrass, which need to be researched, followed by documented solutions and recommendations.

Activities of our switchgrass research project take place at 3 locations using full size farm fields with very experienced co-operators (Don Nott, James Fisher and Urs Eggimann, who also manages this project). The financial and time contributions of the 3 co-operators are very significant but necessary to deliver the desired results. One of our board advisors, Dr. Kate Withers, with expert level academic biomass credentials, is another strong asset for our project. Another OBPC resource, Meaghan

Richardson, P.Ag, complements our project team.

At our Clinton Field Day we gave a presentation covering our interim research results. The two fields with new REAP-Canada switchgrass varieties and spring wheat as a nurse crop were the highlight of the afternoon. Visitors also witnessed the successful results of a glyphosate application in a mature switchgrass field, where perennial weeds started to become an issue.

One segment of our Ag Biomass Day 2015 in Guelph will be dedicated to this project. We will share our 2014 research results and talk about the planned 2015 activities. The audience will get an opportunity to ask questions to the project team.

The full project interim report can be accessed directly by OBPC members on the OBPC website and will be made available to non-members on request. The Interim Report addresses all 5 segments of our switchgrass research activities: Reseeding, Control of Annual Weeds, Control of Perennial Weeds, Switchgrass Establishment with a Nurse Crop and Switchgrass Storage Optimization.

### Recent Blog Posts on OntarioBiomass.com website

#### [Ag Biomass Day 2015 in Guelph, Friday March 27, 2015](#)

27 Feb 2015 12:46 PM • [Urs Eggimann](#)

#### [Study finds switchgrass removes PCBs from soils](#)

19 Feb 2015 3:37 PM • [Urs Eggimann](#)

#### [New Start-up Producer membership](#)

17 Feb 2015 10:01 AM • [Urs Eggimann](#)

#### [Switchgrass Information Session with a group of farmers in Grey-Bruce](#)

08 Feb 2015 8:48 PM • [Urs Eggimann](#)

#### [OBPC Presentations at FarmSmart 2015](#)

08 Feb 2015 12:05 PM • [Urs Eggimann](#)

#### [Abengoa opens world's largest cellulosic biorefinery](#)

21 Nov 2014 8:25 AM • [Urs Eggimann](#)

#### [Cellulosic Ethanol Prospects Boosted by Research](#)

21 Nov 2014 7:53 AM • [Urs Eggimann](#)

#### [The strange world of super-strong, super-light nanocellulose](#)

19 Nov 2014 10:24 AM • [Urs Eggimann](#)

#### [Video released, featuring highlights from the ISBBB meeting](#)

19 Nov 2014 10:17 AM • [Urs Eggimann](#)

#### [Why auto makers are investing in biomaterials](#)

19 Nov 2014 10:13 AM • [Urs Eggimann](#)

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