



# ABIC 2004

12-15 September, Cologne, Germany

▶▶▶ INDEX

|                           |     |
|---------------------------|-----|
| Interview with Eric Cline | _01 |
| ABIC 2004 Manifesto       | _02 |
| Interview with Eric Cline | _03 |
| Rates & Options           | _04 |

▶ SPONSOR OF ABIC 2004



▶ SPONSOR OF ABIC 2004



▶ HOST OF ABIC 2004



▶▶▶ CITY-INFOS



Info material about Cologne  
Phone: +49.221.221 0  
Fax: +49.221.221 22 211  
[www.koeln-tourismus.de](http://www.koeln-tourismus.de)

Infos on the Cologne Fair and Congress Center  
KölnKongress GmbH  
Deutz-Mülheimer Str. 30  
D-50679 Köln  
Phone: +49.221.821 2121  
Fax: +49.221.821 3430  
[info@koelnkongress.de](mailto:info@koelnkongress.de)

▶▶▶ CONTACT INFOS

Saskatchewan, Canada, 10/08/04

## Canada: Blueprint for green Biotechnology

**Eric Cline, Minister of Industry and Resources, Saskatchewan, Canada**

Saskatoon native Eric Cline knows something about promoting local industry. As a member of the provincial Legislature since 1991 and Minister of Industry and Resources for the Canadian Province of Saskatchewan since February, 2003, he has taken an active role in promoting the cross-pollination governmental, university, and entrepreneurial resources to ensure Saskatoon's role as an AgBiotechnology powerhouse. He also serves as the province's Minister Responsible for the Saskatchewan Research Council, Saskatchewan Opportunities Corporation, Tourism Saskatchewan, Information Services Corporation of Saskatchewan, and Investment Saskatchewan.

Mr. Cline will participate in the opening procedure of ABIC 2004 on September, 12<sup>th</sup>. In this edition of ABIC 2004, he talks about the role of government in promoting AgBiotech as an industry.

? I understand that Saskatchewan has become a real powerhouse in AgBiotech.

! Yeah, we have the largest concentration of Ag-Biotech in Canada and are also the country's fastest growing AgBiotech cluster - we account for 30% of Canada's AgBiotech industry - as well as being one of five centers of excellence in the world. This is all centred around a cluster of agencies located in Saskatoon - including the University of Saskatchewan, a federal entity called Agriculture Canada, the National Research Council's Plant Biotech Center, the Saskatchewan Research Council, Innovation Place Research Park, and the Vaccines and Infectious Disease Organization. All-in-all, we have 700 scientists in 30 private companies working alongside government and university facilities here.

? Can you tell us something about the governmental structures in place, where you fit into them, and how this cluster evolved?

! The province of Saskatchewan, the city of Saskatoon, and the federal government each has a department for economic development. In order to



Eric Cline, Minister of Industry and Resources, Saskatchewan

promote economic development in the province of Saskatchewan, the department has identified several sectors that are doing well that they wanted to grow and established strategic plans for achieving that. Back in the late 1970s, ... [page 03\\_▶▶▶](#)

06/08/04

## AgBiotech Manifesto on the Road

On August 6<sup>th</sup>, the Steering Committee of ABIC 2004 officially released the AgBiotech Manifesto for comment and feedback. The document defines a clear position about the expected future prospects of biotechnology applications for sustainable agriculture and renewable resources.

You are cordially invited to contribute your signature as supporter of the manifesto at <http://www.abic2004.org/manifesto>.

**Read the manifesto.**

[page 02\\_▶▶▶](#)

Phytowelt GmbH Conference Office ABIC 2004 BioCampus Cologne · Nattermannallee 1 · D-50829 Cologne · Germany  
Phone: +49.221.49 299 55 · Fax: +49.221.49 299 560 · Email: [contact@abic2004.org](mailto:contact@abic2004.org) · Internet: [www.abic2004.org](http://www.abic2004.org)  
ABIC 2004 Head Office Phytowelt GmbH: Kölsumer Weg 33 · D-41334 Nettetal · Germany  
Phone: +49.2162.7 78 59 · Fax: +49.2162.8 92 15 · Email: [contact@phytowelt.de](mailto:contact@phytowelt.de) · Internet: [www.phytowelt.de](http://www.phytowelt.de) · HRB 8524

# The ABIC 2004 Manifesto: Science helps to improve Agricultural Systems



- I. On our planet, 18% of the land mass is used for agricultural production. This fraction cannot be increased substantially.
- II. It is absolutely essential that the yield per unit of land increases beyond current levels given that:
  - The human population is still growing, and will reach about nine billion by 2040;
  - 7 mio hectare of agricultural land (equivalent to 60% of the German agricultural area) are lost annually to growth of cities and other non-agricultural uses;
  - Consumer diets in developing countries are increasingly changing from plant-based proteins to animal protein, a trend that requires a greater amount of crop-based feed.
- III. In spite of improvements in agricultural production within the last few decades, e.g. in yield and quality, intensive agriculture can have significant negative impacts on the environment including intensive use of water, reduced biodiversity, soil erosion and salinization.
- IV. Hence, the introduction and widespread adoption of better agronomic systems, that result in crops higher in quality and yield and reduced land use, and even more sustainable and environmentally friendly agricultural practices, are essential if we are to meet the population growth and environmental challenges of the future.



**The undersigned are convinced that these premises are true and accurate and, therefore, freely subscribe to the following conclusions:**

- I. Eco-compatible agriculture, that provides high quality and high yielding crops, should take advantage of all available technologies, including genetic modification, to develop crop plants that are optimally adapted to their environment.
- II. Science has for many years played a pivotal role in providing people with more and better food. Sound, modern science, especially in plant biotechnology, will help to solve current and future problems in feeding a growing population; in particular, plant science will provide solutions to problems at the interface between agriculture and the environment.
- III. We are also convinced that the new agricultural technologies can contribute significantly to sustainability and thus to equity in food production systems. Equity and sustainability in agriculture can only be reached if we also address the complex problems and reasons of poverty.
- IV. All available science-based technologies that are increasingly friendly for the environment and respectful of biodiversity should be used to improve agricultural production systems; these include conventional breeding, advanced biotechnologies, genomics, cell biology, and agricultural ecology.
- V. Genetically modified plants will help to ensure a secure and sustainable future for agriculture. The undersigned support the safe and responsible use of genetically modified crops.
- VI. We are aware that the introduction of genetically modified crops in agriculture has generated an intensive public debate. An open dialog with the public will help to create a better understanding of the relevance of modern genetics in developing environmentally safe, disease resistant, more nutritious and high yielding crops.



**The undersigned scientists and technologists favor the effective exploitation of scientific principles in modern agriculture, including, when useful, the safe adoption of GMOs, and ask the support of colleagues active at the interface between science and its applications. Furthermore, we ask politicians and regulators in plant genetic engineering for:**

•  
THE USE OF UNBIASED INFORMATION IN LAW-MAKING AND POLITICS

•  
THE SUPPORT OF R&D TO FOSTER INNOVATION IN PLANT GENETIC ENGINEERING

•  
THE ELIMINATION OF UNNECESSARY, CURRENTLY EXISTING HURDLES IN LAWS AND REGULATIONS CONCERNING THESE TECHNOLOGIES



This Manifesto can be undersigned on our website [www.abic2004.org/manifesto/](http://www.abic2004.org/manifesto/)  
or send email to [manifesto@abic2004.org](mailto:manifesto@abic2004.org)

▶▶▶ CONTACT INFOS

Phytowelt GmbH Conference Office ABIC 2004 BioCampus Cologne · Nattermannallee 1 · D-50829 Cologne · Germany  
Phone: +49.221.49 299 55 · Fax: +49.221.49 299 560 · Email: [contact@abic2004.org](mailto:contact@abic2004.org) · Internet: [www.abic2004.org](http://www.abic2004.org)  
ABIC 2004 Head Office Phytowelt GmbH: Kölsumer Weg 33 · D-41334 Nettetal · Germany  
Phone: +49.2162.7 78 59 · Fax: +49.2162.8 92 15 · Email: [contact@phytowelt.de](mailto:contact@phytowelt.de) · Internet: [www.phytowelt.de](http://www.phytowelt.de) · HRB 8524

title\_▶▶▶

## ▶ SPONSORS OF ABIC 2004



...we had a nuclear linear accelerator, and the provincial Premier, Allan Blakeney, had this vision to use the agencies we had to create a major research park. We were fortunate that the federal and provincial levels supported the institutions in Saskatoon, and we continue to benefit from his vision in that regard.

I am the minister in charge of the Department of Industry and Resources (DIR) in Saskatoon. I'm elected to the legislature and then appointed to this post.

? **And that research park that Blakeney championed became Innovation Place?**

Yes. Innovation Place in Saskatoon is probably the leading research park for AgBiotech in Canada. The provincial government started building first class research buildings near the university from the start, and the Saskatchewan Research Council located its head office at Innovation Place. The idea was to use it as lever to attract private sector as well, and over the ensuing 25 years it has done just that. Today we have more than 100 tenants specializing in AgBiotech, pharmaceuticals, and the environment.

Another beacon for this development is the Canadian light source synchrotron, as well as an organization called the Vaccine and Infectious Disease Organization. In Saskatchewan, researchers are using biotech-based science to figure out how to grow heartier and more productive crops, as well as to prevent the spread of infectious diseases in crops, to make forests more disease-resistance, and to extract new sources of energy fuel from grains, among other things. The first genetically modified commercial canola and the first genetically engineered animal vaccine were both developed there. We also have one of North America's most important legume and cereal microbial inoculants manufacturing clusters. We are Canada's genomics center, and people are looking at ways to combine AgBiotech and resource models with science to create plastics and chemicals and other materials.

? **Can you elaborate on that?**

Sure. Just look at Styrofoam coffee cups. You can make something that looks similar and has similar properties, but from biodegradable materials by looking at the structure of natural products.

? **And what is the synchrotron?**

It's basically a very powerful microscope - one of just 15 in the world, and the size of two football fields. It allows you to look at the molecular level of things, so you can see that you can make a lot of progress. It was built with federal, provincial, and municipal funding, but charges private sector participants for access to beam lines to allow them to look into the structure of molecules.

It's being used by companies dealing in animal health products, food safety products, and fertilizers in tune with environment.

? **Can you give me some examples of some successful commercial enterprises in the park?**

Sure. There's a company called Phenomenome Discoveries, which offers the only metabolic profiling technology in the world. And then there's Prairie Plant Systems, which grow marijuana in abandoned mine sites for studying medicinal uses. They have other underground chambers for people who want to produce plants under very controlled conditions, such as for pharma applications.

? **What do you see as the role of government in supporting innovation? How do you maintain the balance between support and subsidization?**

Government - or, more accurately, politicians - don't decide where research dollars should go. Rather we decide at political level how much money we can afford to put into research, but then we have a peer review process to determine which projects get funded. Also at the federal level, matching funds are determined by respected academics who sit on federal committees. Researchers bring ideas to that body, and they rank research on basis of what they think will be the most excellent thing to do. Then you will also get private sector money coming in from corporations from universities asking to do specific research beneficial to what they do and in most cases for society as well, so it ends up being driven by a private, application-oriented, agenda rather than a public, pure research, agenda. You need a balance between the two.

? **Does the government share in patents, since you're putting up some of the money?**

No, but there are private arrangements between the universities and industry groups. Government benefits by simply attracting these highly educated and well paid people, who tend to also be entrepreneurial and end up enriching the community in many ways.

? **Any advice to other governments trying to achieve this kind of success?**

I wouldn't presume to lecture anyone, especially since all this started before my time. The key for us is that a variety of things came together after along time, and not overnight. We had a very strong college of agriculture at the University of Saskatchewan, and we got a lot of scientists all in one place from different disciplines - plant scientists, soil scientists, and health scientists in one place, and the colleges of medicine, nursing, and physical therapy all together. And then we had the linear accelerator, which led to the synchrotron, which has been such a successful attractor of talent.

I'd suggest the best way to learn more is to drop by our booth at ABIC 2004, and we will give you much more details on whatever you want to know.

**Steve Zwick**

## ▶▶▶ CONTACT INFOS

Phytowelt GmbH Conference Office ABIC 2004 BioCampus Cologne · Nattermannallee 1 · D-50829 Cologne · Germany  
 Phone: +49.221.49 299 55 · Fax: +49.221.49 299 560 · Email: contact@abic2004.org · Internet: www.abic2004.org  
 ABIC 2004 Head Office Phytowelt GmbH: Kölsumer Weg 33 · D-41334 Nettetal · Germany  
 Phone: +49.2162.7 78 59 · Fax: +49.2162.8 92 15 · Email: contact@phytowelt.de · Internet: www.phytowelt.de · HRB 8524

## CALL FOR POSTERS

Best three posters will win one delegate ticket.

You are invited to take part in the ABIC 2004 Poster Session competition. The contest is open to all non-commercial institutions. The subject of the work presented should be in relation to the topics of the program (see below).

**The best 3 posters selected by an independent committee will be awarded with a free ABIC 2004 delegate ticket.**

For participation, registration as a delegate is required. For more details please contact the **Phytowelt GmbH Conference Office ABIC 2004** or mail to:

[posters@abic2004.org](mailto:posters@abic2004.org)

## PROGRAM UPDATE

The full program can be downloaded as a PDF-file from this location:

[www.abic2004.org/download/ABIC2004\\_program.pdf](http://www.abic2004.org/download/ABIC2004_program.pdf)

## MEDIA PARTNER

FINANCIAL TIMES  
DEUTSCHLAND

European  
Biotechnology  
Science & Industry News

DAS N.I.T. - MAGAZIN FÜR INNOVATION  
TECHNOLOGY  
REVUE

transkript BIO WORLD  
www.bioworld.ch

## BOOTH RATES

Pre-equipped booths of 9 m<sup>2</sup> will be available. In addition, raw space is available with minimum size of 15 m<sup>2</sup>; the price for the raw space will be **Euro 220,40** (=190,- + 16% V.A.T.) per square meter.

**9 m<sup>2</sup> booth** (pre-equipped):

**Regular:** Euro 2610,- (=2250,- + 16% V.A.T.)

**Premium:** Euro 4350,- (=3750,- + 16% V.A.T.)

**15 m<sup>2</sup> booth** (raw space): Euro 3306,- (=2850,- + 16% V.A.T.)

The full exhibitors manual will be sent to you on request.

## DELEGATE REGISTRATION RATES

Prices include Breakfast, Lunch and Beverages

**Regular Rate:** Euro 870,- (=750,- + 16% V.A.T.)

**Academic Rate\*:** Euro 217,50 (=187,50 + 16% V.A.T.)

**Student Rate\*:** Euro 145,- (=125,- + 16% V.A.T.)

**One Day Delegate Rate:** Euro 290,- (=250,- + 16% V.A.T.)

**Exhibitor Delegate Rate:** Euro 290,- (=250,- + 16% V.A.T.)

**Group Discounts:** 3-5 Delegates: - 10%  
6 or more Delegates: - 15%

\* Academic and Student Delegates: You must provide verification of academic or student status to qualify for the Academic or Student rate.

## SPONSORS OF ABIC 2004



Ministerium für  
Wirtschaft und Arbeit  
des Landes  
Nordrhein-Westfalen

NRW

North Rhine-Westphalia, Ministry of Economy and Labor  
[www.mwa.nrw.de](http://www.mwa.nrw.de)



Bayer CropScience

## Special Partnering Event

One session of the Conference program will be fully dedicated to the subject of Business Partnering (see program below). Approximately 20 companies will be given time and technology to appropriately present themselves as part of the **Premium Partnering Package**. Throughout ABIC 2004 a special area in the trade fair hall will provide optimized partnering procedures for registered partnering event participants. In addition a special section of the ABIC 2004 website [www.abic2004.org](http://www.abic2004.org) will be reserved for the partnering event. This service will be made available in due time.

## PARTNERING RATES

**Regular Partnering:** Euro 406,- (=350,- + 16% V.A.T.)  
(one to one meetings plus Web Partnering)

**Premium Partnering:** Euro 870,- (=750,- + 16% V.A.T.)  
(Business Presentation at Forum plus Regular Partnering)

Prices are added to Delegate Rates.

Partnering possible throughout ABIC 2004 to allow participants to arrange meetings at convenience.

| Session (Day) | The Business of Biotechnology   | Advances in Plant Improvement   | New Opportunities through Biotechnology   |
|---------------|---|---|---|
| 01            | <b>The Role and Importance of Ethics for Agricultural Biotechnology in Europe</b> <ul style="list-style-type: none"> <li>• Round Table Discussion</li> </ul>  | <b>Controlling Expression of Transgenes</b> <ul style="list-style-type: none"> <li>• Regulating Expression of Transgenes in Plants</li> <li>• Expression of Genes in specific Chromosome Locations</li> <li>• Environmental Assessment of Risks and Benefits of Regulated Expression</li> </ul> | <b>Plants as green Factories</b> <ul style="list-style-type: none"> <li>• Strategies for producing PMPs* in Plants (Molecular Farming)</li> <li>• Improvements of Fiber Crops by Genetic Engineering</li> <li>• New tools for exploring and engineering metabolic pathways * Plant-made pharmaceuticals</li> </ul>  |
| 02            | <b>Co-existence of Transgenic and Non-Transgenic Crops</b> <ul style="list-style-type: none"> <li>• Gene Flow and Co-Existence</li> <li>• Scientific Basis of Co-Existence</li> <li>• Ecological Impact of GMOs</li> </ul>    | <b>Synergies between Breeding and Biotechnology</b> <ul style="list-style-type: none"> <li>• Crop Improvement by Allele Mining</li> <li>• Advanced Mapping Tools</li> <li>• The importance of Arabidopsis research for plant breeding</li> </ul>  | <b>Biotechnology and Food Security for the Resource-Poor</b> <ul style="list-style-type: none"> <li>• Analysis of the Need for new Solutions: Africa</li> <li>• Case Study of a real Biotech Solution: Argentina</li> <li>• Biotechnology for Food Security in Developing Countries in the Context of Global Warming and Prospects for Organic Agriculture</li> </ul> |
| 03            | <b>Business Forum: Consumer Benefits and Industrial Perspectives of AgBiotechnology / Technology and Industry Presentations</b>   |   |   |
| 04            | <b>The Business of Biotechnology</b> <ul style="list-style-type: none"> <li>• Investment in Biotech in Japan</li> <li>• Dos and Dents for Biotech Start-ups</li> <li>• Today's and Future Markets in Plant Biotech</li> </ul> | <b>Improvements in Non-Food Crops</b> <ul style="list-style-type: none"> <li>• Biotechnological Applications in Forestry</li> <li>• Oil Palm Breeding and competitive Approaches</li> <li>• Development of novel colour flowers in horticultural crops; from Gene Cloning to Market</li> </ul>  | <b>Nutraceuticals as Links between Food and Health: Using Biotechnology to Improve Our Food</b> <ul style="list-style-type: none"> <li>• Polyunsaturated Fatty Acids</li> <li>• "HarvestPlus" - A Biofortification Program</li> <li>• Classical Breeding / Food Processing / Fortification</li> </ul>   |

## CONTACT INFOS

Phytowelt GmbH Conference Office ABIC 2004 BioCampus Cologne · Nattermannallee 1 · D-50829 Cologne · Germany  
 Phone: +49.221.49 299 55 · Fax: +49.221.49 299 560 · Email: [contact@abic2004.org](mailto:contact@abic2004.org) · Internet: [www.abic2004.org](http://www.abic2004.org)  
 ABIC 2004 Head Office Phytowelt GmbH: Kölsumer Weg 33 · D-41334 Nettetal · Germany  
 Phone: +49.2162.7 78 59 · Fax: +49.2162.8 92 15 · Email: [contact@phytowelt.de](mailto:contact@phytowelt.de) · Internet: [www.phytowelt.de](http://www.phytowelt.de) · HRB 8524