

## TRANSLATION OF CHINA AGRICULTURAL MACHINERY HERALD - JULY 27, 2009

On July 20th, a Canadian company N/C Quest Inc. held an introductory meeting in Beijing to promote its new technology, .Bio-Agtive Emission technology.. Xiaoping Lu, the Deputy Director of the International cooperation department, Ministry of Agriculture, and more than 20 experts in the field of agriculture and agricultural machinery attended this meeting.

According to president of N/C Quest Inc. Gary Lewis.s introduction, .Bio-Agtive Emission technology. utilizes tractor exhaust to stimulate crop growth. Methods include cooling and conditioning exhaust gas to pump into seeder through a set of custom-made pipes, and injecting exhaust into soil through air drills along with seeds. The Co<sub>2</sub> contained in exhaust gas stimulate microbial activity in soil and promote crop root growth, stronger root system making crops less in need of fertilizer and more drought-tolerant; CO<sub>2</sub> can also adjust the PH in soil, making a higher soil productivity and yields, and the environment also benefits because the CO<sub>2</sub> that would have been emitted into the atmosphere is emitted into soil. According to N/C Quest's introduction, significantly increased yields with lower or no fertilizer applications have been recorded.

N/C Quest Inc. located in Pincher Creek, AB, Canada. Gary Lewis, founder of the company, has been a rancher for 25 years, he also is a professional mechanic and very accomplished in exhaust emission system. Gary founded N/C Quest Inc. 9 years ago and developed Bio-Agtive Emission technology after long-term research and experimentation on his own farm.

In Canada, N/C Quest Inc. licenses its Bio-Agtive Emission technology to farmers. The equipment is then fitted to the licensee's tractor by distributor appointed by N/C Quest Inc.; the distributor is responsible for maintenance and any mechanical problems as well as recruiting more farmers to use this new technology. The licensee is entitled to all the scientific research on crops, yields and fertilizer applications by those using Bio-Agtive. According to the agreement, licensee is also expected to provide data on his own tests and results. Beside Gary Lewis himself, N/C Quest has two experts, a Rhizosphere consultant and an Eco-Agronomy consultant that have been work with the project for several years. The sales of Bio-Agtive licenses since commercialization have increased from 10 of year 2005 to 120 of 2008. In 2008, N/C Quest introduced its technology to Australia, South Africa, Japan and UK in addition to Canada and the USA. Bio-Agtive Emission technology now has been used on over 500,000 acres of land and BBC news also reports this technology on special topic.

At the introductory meeting, Gary Lewis said that after on-the-spot investigation, he believes that the Bio-Agtive Emission Technology is suitable to most of tractors used in China, and this technology would affect neither performance nor power of tractors; and most of the arable land in China, no matter chernozemic soil, lateritic soil and loessial soil, is suitable for using Bio-Agtive Emission Technology.

Trevor Page, senior manager of International Cooperation in N/C Quest Inc., former UN World Food Programme Director in China, knows Chinese agriculture well and he said that N/C Quest is looking forward to cooperate with Chinese government to promote Bio-Agtive Emission Technology and to contribute to development of agriculture in China, once conditions are ripe, N/C Quest will cooperate with local agricultural companies to commercialize its technology.



N/C Quest Inc. President: Gary Lewis



Director International Projects: Trevor Page and Coordinator China Project: Jan Gong



Participating officials and experts



A tractor in Southern Alberta equipped with Bio-Active Emissions Technology



Crop root comparison under different treatments