

### In this number

- Mistissini Arena; geothermics at work!
- The president of BMA as a technical advisor for the Canadian Coalition of Geothermal Energy
- What is the lifespan of your geothermal system?
- The BMA Geo-Energy team continues to grow!

### Links

Ice Kube Systems  
<http://www.icekubesystems.com/>

QOB Global  
<http://www.qobglobal.com/>

CCGE  
*Canadian Coalition of Geothermal Energy*  
<http://www.geo-exchange.ca/>

IGSHPA  
*International Ground Source Heat Pump Association*  
<http://www.igshpa.okstate.edu/>

AEE  
*Association of Energy Engineers*  
<http://www.aeecenter.org/>

OIQ  
*Ordre des Ingénieurs du Québec*  
<http://www.oiq.qc.ca/>

## Mistissini Arana: Ice Kube Systems technology application distributed by BMA Geo-Energy inc.

BMA Geo-Energy inc. has just signed an important contract for the supply of equipment and technical assistance for Mistissini's community center heating and ice refrigeration. The technology developed by Ice Kube Systems, using thermal storage, is already used in more than fifty (50) arenas in North America. This technology makes it possible to save 35% to 60% of refrigeration and heating costs for a standard complex. The contract was granted by QOB Global, an important contractor in the area of Québec, Specialists in building mechanics, they already have several arena complex installations to their credit.

Thanks to **Ice Kube Systems'** technology, the Mistissini's community will profit from an energy performance and comfort level without comparison on the ice as well as in the stands and auxiliary rooms provided by radiant heating.

Visit our Web site to know more about Ice Kube Systems' technologies. <http://www.geo-energie.com>

## Thermal conductivity test : Will your ground be able to provide for long term use?

A quite sad scenario and yet an avoidable one: a geothermal system designed with the wrong thermal conductivity factor. If such a case occurs, the direct consequence will be an annual reduction of a few degrees in ground temperature. We find ourselves with a year to year decreasing output of the geothermal system, eventually having a system with decreased COP. What often happens is that the system will function very well the first year, then the 2<sup>nd</sup> year one would say that the winter was more intense, to finally realize after 4 or 5 years that the ground was overexploited... It is thus to the advantage of the customer to have BMA Geo-Energy Inc carry out a thermal conductivity test on the project



site. The costs related to a conductivity test are definitely lower than the losses incurred by a badly designed system.

## Contact us

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## Peter Kettenbeil joins the BMA. Geo-Energy inc. team.

Following the increasing requests for commercial geothermal systems, Mr. Peter Kettenbeil has accepted the position of Director of "green Buildings" projects. Mr. Kettenbeil has worked in the clean energy industry since 1983. He made his beginnings as coordinator of research for the Group Ro-Na. Thereafter, Peter worked as an environmental consultant for the Novtec house project in Laval and for the Biosphere project in Jean-Drapeau park. People know Peter as being a specialist in advanced technologies with sustainable development applications. His career brought him to establish many trust based relations in several fields, always closely connected to the field of clean energies. He will thus come to play an important role with the goal of bringing the members of the green buildings network into close collaboration, mainly at an institutional level.



## The Canadian Coalition of Geothermal Energy & BMA Geo-Energy inc.

The president of BMA Geo-Energy, Mr. Bernard Messier, ing. was invited to sit on the technical advisory committee of the Canadian Coalition of Geothermal Energy (CCGE). It is thanks to his impressive journey in the field of geothermal energy that the leaders of the CCGE asked Mr. Messier to be a member of the committee. Bernard is a designer engineer certified by the IGSHPA as well as by the Association of Energy Engineers. Professionally, Mr. Messier is a member of the Ordre des Ingénieurs du Québec (OIQ) and of the Association of Professional Engineers of Ontario and Alberta. At BMA Geo-Energy, we specialize in the complete design of geothermal systems and "retrofit" analysis. The time is now, to act for the challenges of tomorrow...