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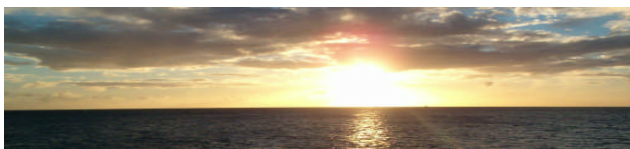
## Stratospheric Ozone Layer & Atmosphere Protection

MOPIA's Monthly E-Bulletin for our Subscription Members and Select Stakeholders

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### Training Centre for Natural Refrigerants Operating

In the Netherlands, NVKL ([www.nvkl.nl](http://www.nvkl.nl)) a leading association of companies in the refrigeration and air conditioning sector began offering specialized training for persons who will be working with natural refrigerants and ammonia. The training centre will offer practical hands-on training including design for efficient systems and characteristics of the refrigerants in terms of safety, installation and performance. The Netherlands appears to be one of the most innovative and a leader for natural refrigerant technologies.



### CO<sub>2</sub> Training Centre Launched

With more and more scrutiny being placed on the environmental footprint of various refrigerants, new alternatives are being introduced. And in many cases, old or original refrigerants including carbon dioxide, hydrocarbons and ammonia are as well.

HFC's are one of the six targeted gases in the broader basket of gases included under the Kyoto Protocol. HFC's have been identified as having a significant global warming potential (GWP). For example, HFC 134a, used in most mobile air conditioning systems, has a GWP of approx. 1300 as compared to CO<sub>2</sub> with a GWP of just 1 (over a 100 year time period). Future regulatory controls are expected that will restrict or even phase-out their use in various applications.

CO<sub>2</sub> is therefore logically considered a natural replacement for HFC's in many applications. With this vision, a new European CO<sub>2</sub> Refrigeration Training Academy was recently launched in the United Kingdom which will set the stage for wider integration of CO<sub>2</sub> systems in Europe and elsewhere.

See: [www.r744.com/articles/2010-08-02-co2-training-academy-launched-in-the-uk.php](http://www.r744.com/articles/2010-08-02-co2-training-academy-launched-in-the-uk.php)

### Atmosphere 2010 Workshop



Atmosphere 2010 - the International Workshop on Natural Refrigerants - will be held in Brussels, Belgium on September 27-28.

There is anticipated to be 150 participants, 40 moderators, 45 speakers and 15 groups in interactive workshops bringing together stakeholders to discuss what policy and industry can do to support the use of CO<sub>2</sub>, ammonia, and hydrocarbons as refrigerants in developed and developing countries.

The world of refrigeration and air conditioning is evolving very rapidly. Especially with HFC's becoming intensely scrutinized because of their global warming characteristics. There is also new dynamics including the re-introduction of alternatives such as natural refrigerants and new refrigerants including HFO 1234yf.

There is much discussion and lobbying by the various stakeholders and industry operatives on what is the best future technology and refrigerants. MOPIA will keep aware of this emerging world as these will affect your future options and how Manitoba applies or adopts future ODS and Other Halocarbons legislation.

See: [www.atmosphere2010.com](http://www.atmosphere2010.com)

### MOPIA at Wpg. Green Show



MOPIA will be an exhibitor at the Winnipeg Green Lifestyle & Organic Living Show coming to the Winnipeg Convention Centre on September 11-12.

This event will have everything from eco-fashion to eco-vehicles. The event is geared towards the general public and more details can be obtained by visiting:

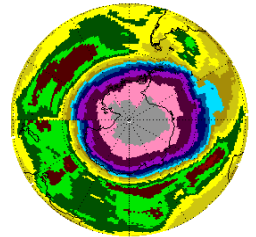
[www.winnipeggreenshow.com](http://www.winnipeggreenshow.com)



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## Sun Awareness for Outside Workers



Did you know that 76,000 new cases of skin cancer will be diagnosed in Canada in 2010! The rate is much higher in places like Australia, but none the less, skin cancer can be deadly. It can also be prevented if we take simple steps to protect ourselves.

MOPIA's Sun Awareness Coordinator Lisa Schmidt has developed a detailed PowerPoint Presentation on Sun Awareness for the Outside Worker. The presentation can be downloaded or viewed on MOPIA's website. It highlights the latest facts and figures and provides useful tips on how to make yourself safe under the sun.

## Electronics Stewardship



The Government of Manitoba has passed the Electrical and Electronic Equipment Stewardship Regulation under the Waste Reduction and Prevention Act (February 3, 2010). This Regulation requires stewards of designated electrical and electronic equipment to operate or subscribe to an electrical and electronic equipment stewardship program.

In response to the Regulation, an end-of-life electrical and electronic equipment stewardship plan for Manitoba was developed jointly by the Electronics Product Stewardship Canada (EPSC) and the Retail Council of Canada (RCC). The Canadian Appliance Manufacturers Association (CAMA) is also involved in the stewardship plans.

Prior to submitting the final stewardship plan, a public consultation process was required and was recently held the first week of August.

The draft is available at: [www.intergroup.ca/ewaste/meeesp-draft.pdf](http://www.intergroup.ca/ewaste/meeesp-draft.pdf)

MOPIA will keep apprised at how this Regulation may affect white goods or other appliances that some of our stakeholders may be handling.

## Who Can Access/Purchase Regulated Products...

Under the Manitoba Ozone Depleting Substances and Other Halocarbons Regulation 103/94, Section 19(1) states who can obtain (purchase) regulated products (i.e. refrigerants, roof-top units, split systems, condensers, filter dryer, evaporator, compressor, etc.). Only certified technicians (those who hold a Manitoba/MOPIA card) or a company holding a Secondary Distributor Permit.

At the present time, hydrocarbons (HCs) are not regulated substances. However, they or the equipment they are designed for may have conditions of use under Manitoba's Refrigeration and Air Conditioning Mechanic Trade Regulation, the B52 Code or by insurance underwriters. In addition, persons must never vent HCFCs or HFCs or add hydrocarbons to a system(s) that still contains a regulated refrigerant.

## Next Certification Training Class

MOPIA is occasionally offering our environmental and regulation awareness certification training class. If you know someone who may be interested or plans to handle regulated products (i.e. refrigerant or parts), they should sign-up to take a future class. Obtain the training registration form from our website at: [www.mopia.ca](http://www.mopia.ca).

## 2010-11 Certification Renewals

All persons working with regulated refrigerants in Manitoba must maintain a valid certification card. The renewal form is available at [www.mopia.ca](http://www.mopia.ca). We can also fax, email or mail you one if required. Check to make sure you and your co-workers have renewed for the 2010-2011 period.



Keeping our members informed!!