

# OZONews

A weekly electronic news service on ozone protection & implementation of the Montreal Protocol compiled by:  
UNEP DTIE OzonAction Programme, Paris  
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### 1- **Manufacturer Using Carbon Dioxide as Refrigerant Alternative**

Detroit (AP) - It's not hard to find carbon dioxide. Every time you exhale, more of it enters the atmosphere. Japanese automotive supplier Denso International believes the ubiquitous gas may be a viable alternative to liquid refrigerants used in vehicle air conditioning systems. "CO2 is a refrigerant that exists in nature and has a negligible effect on the environment," Richard Smith, the company's director of climate control engineering, said Monday at the Society of Automotive Engineers World Congress. Indeed, Smith said carbon dioxide has one-thousandth the global warming effect of R134a, which replaced the ozone-layer-depleting chemical freon in air conditioners. Denso is working on a carbon dioxide heat pump system that would provide heating and cooling in one unit. The company already has put the technology to use in water heating systems in Japan and found it used one-third the power of natural gas systems, Smith said. On March 26, Toyota Motor Corp. plans to make a presentation with the technology on its FCHV-4 fuel-cell hybrid car at the Earth Technologies Forum in Washington, D.C. There are challenges, however, to the on-board systems, including cost and weight reduction, reliability improvement and maintenance equipment, Smith said.

**Article @:** [http://www.mlive.com/newsflash/autonews/index.ssf/?newsflash/get\\_story.ssf?cgi-free/getstory\\_ssf.cgi?g9859\\_BC\\_MI--Autos-CarbonDioxi&&news&autonews](http://www.mlive.com/newsflash/autonews/index.ssf/?newsflash/get_story.ssf?cgi-free/getstory_ssf.cgi?g9859_BC_MI--Autos-CarbonDioxi&&news&autonews)

**Source:** The Associated Press, 04 March 2002, By ED GARSTEN

### 2- **Smugglers of Ozone Depleting CFCs Plead Guilty**

Hartford, CT - Barry Himes, John Mucha and Richard Pelletier pled guilty today to conspiring to smuggle ozone depleting chlorofluorocarbon gases ("CFCs") into the United States by means of false statements to U.S. Customs and the Environmental Protection Agency, and to defrauding the Internal Revenue Service in its attempts to collect excise and income taxes on proceeds from the sale of the contraband. Under the terms of plea agreements approved today by the Court, Himes has agreed to a term of 78 and 97 months in prison, and Mucha and Pelletier have agreed to a term of between 70 and 87 months in prison as a consequence of the illegal importation scheme to import over 660 tons of CFCs... The defendants admitted in court papers that they engaged in elaborate steps, including the use of multiple offshore bank accounts in the Bahamas and Antigua as well as other corporate bank accounts in Nevada and New York, to conceal their receipt of income and to create a false appearance that the income from the CFC sales proceeds was going to unrelated third parties...

**Full text @:** [http://www.usdoj.gov/opa/pr/2002/March/02\\_enrd\\_129.htm](http://www.usdoj.gov/opa/pr/2002/March/02_enrd_129.htm)

**Source:** US Department of Justice, Press release, 06 March 2002

### 3- **FAO to Help Phase Out the Use of Methyl Bromide**

The Food and Agricultural Organisation (FAO) in collaboration with UNEP DTIE OzonAction Programme have developed two tools to help phase out the use of methyl bromide, a toxic and ozone depleting pesticide used in soil fumigation. The first tool: **Manual for training of extension workers and farmers - Alternatives to methyl bromide for soil fumigation** provides a comprehensive training approach on new alternatives for extension workers and farmers, focussing on Integrated Pest Management (IPM). It provides guidance on how to conduct Train-the-Trainer courses and Farmer Field Schools where farmers participate in the process of adaptation of these new practices. The second tool: **Global report on validated alternatives to the use of methyl bromide for soil fumigation** provides readers in developing countries with technological and economical alternatives to methyl bromide that have proven successful. This document is aimed at assisting agricultural researchers and extension workers to carry out further studies that will contribute to the final validation of alternatives to replace methyl bromide.

**Full text @:** <http://www.unep.org/MediaRoom/information/Default.asp>

**Source:** UNEP Information Notes, March 2002

**OzoNews is available on the OzonAction Programme web site @:**

<http://www.uneptie.org/ozonaction/compliance/ozonews/main.html>

United Nations Environment Programme Division of Technology, Industry, and Economics (UNEP DTIE) OzonAction Programme provides OzoNews as a free service to help keep readers informed about current news relating to ozone depletion and the implementation of the Montreal Protocol. The goal of OzoNews is to provide information, stimulate discussion and promote cooperation in support of compliance with the Montreal Protocol. With the exception of items written by UNEP and occasional contributions solicited from other organizations, the news is sourced from on-line newspapers, journals and websites. The views expressed in articles written by external authors are solely the viewpoints of those authors and do not represent the policy or viewpoint of UNEP. While UNEP strives to avoid inclusion of misleading or inaccurate information, it is ultimately the responsibility of the reader to evaluate the accuracy of any news article in OzoNews. The citing of commercial technologies, products or services does not constitute endorsement of those items by UNEP.

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