

## **A NOVEL METHOD OF DESALINATION OF SEA WATER**

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### **Description:**

We are working on a method for seawater desalination using the technology of clathrate hydrates. These are ice-like structures formed from water and gas (see the web site <http://www.netl.doe.gov/scng/hydrate/> for some neat information on hydrates) and are extensively found in the Earth's subsurface especially under the sea floor and in the arctic regions. But we make hydrates in the laboratory!

### **Objectives:**

Since ice is essentially pure water, our objective is to make these ice-like structures from seawater and thus remove the salt. If successful, this project will have an enormous impact on the world's water supply.

### **Prerequisites:**

A strong curiosity for science and the desire to get your hands dirty.