

## Contemporary Issues Regarding Climate Change and Solutions

**Facilitator: Paul Belanger, [pebelanger@glassdesignresources.com](mailto:pebelanger@glassdesignresources.com) and possible guest speakers – 6 weeks**

**OLLI week 3 (9/26) thru week 8 (10/31; Tuesday a.m.'s in conjunction with Ice core tour 10/3)**

After facilitating some OLLI classes about Earth's Climate along with its concerns and solutions many of you wanted more info to pertinent and timely news discussion regarding climate change and solutions. This course will try to meet those desires.

During week 1, the course will start with a recap of climate change and solutions. Week 2 will encompass a late morning tour of the National Ice Core Lab of Antarctic and Greenland Ice cores showing the science and approaches that have helped us understand past climates and present global warming.

Weeks 3 thru 6 will be more interactive with those in class to clarify misinformation as well as how to overcome the inertia of change regarding reducing emissions with an worldwide energy revolution, future changes in transportation, mitigation solutions to reduce atmospheric CO<sub>2</sub> as well as personal individual options we can adopt.

Bio: (use on file) – this is what I had before?

**Paul Belanger, Ph.D., a retired geologist who has first-hand research background in paleoclimate and paleoceanography using microfossils and stable isotope geochemistry. He has also worked in oil and gas exploration: Amoco, Arco and others.**

**He is a graduate in geology, with a minor in oceanography from the University of Washington (BS) and Brown University (MS, Ph.D.); he was a National Research Council postdoctoral fellow with the USGS at Wood Hole, MA. His leading the Denver climate study group (see <http://www.denverclimatestudygroup.com/>) in talks and discussions on climate change, energy issues, and related socio-economic sustainability issues that have given him a big-picture view of the present and future climate issues expected to occur.**

**Books/Materials: strongly recommend to read before class:**

- **What We Know About Climate Change** by Kerry Emanuel, 2nd Edition 2012, 120 pages — An outline of the basic science of global warming and how current consensus has emerged. Easy read.
- **Powering Forward: What Everyone Should Know About America's Energy Revolution** by Bill Ritter, Jr., 2012 295 pp.
- Other optional recommendations as the class goes on.

**Slides, links, and additional resources** posted on the OLLI class link at <http://www.denverclimatestudygroup.com/>.

**Class Type:** Illustrated Lectures/Discussion; a **field trip** to National Ice Core Lab located at USGS in Lakewood; <http://icecores.org/>.

**Materials Fee:** None.