



**HELLENIC LINK–MIDWEST**  
A SCIENTIFIC AND CULTURAL LINK WITH GREECE  
ΕΛΛΗΝΙΚΟΣ ΕΠΙΣΤΗΜΟΝΙΚΟΣ ΚΑΙ ΠΟΛΙΤΙΣΤΙΚΟΣ ΣΥΝΔΕΣΜΟΣ  
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## **Human-Induced Climate Change in Geologic Time**

**On Sunday, December 9, 2018, Hellenic Link–Midwest presents Professor David Archer in a lecture titled: “Human-induced Climate Change in Geologic Time.” The event will take place at 3:00 pm in Room 1610, at the Oakton Community College, 1600 E. Golf Road, Des Plaines, IL 60016. Admission will be free.**

*Please park in the Faculty/Staff parking lot C and enter through door entrance #37. Please arrive between 2:30-3:00 pm so we can start the lecture promptly at 3:00 pm, as we have the room reserved until 5:00 pm only.*

Professor Archer will talk about what happens—from the perspective of Earth’s natural carbon cycle—when fossil carbon is combusted and released to the atmosphere, and what are the projections of climate impacts into the deep future. Due to the slow nature of the chemical reactions that dissolve rocks and remove atmospheric CO<sub>2</sub>, the carbon cycle and atmospheric carbon dioxide (CO<sub>2</sub>) recover slowly, on a time scale of hundreds of thousands of years. On these longtime scales, because the great ice sheets in Antarctica and Greenland take longer than 100 years to respond to climate change, the sea level rise would be 100 times greater than what is projected for the year 2100. Most of our current plans to avoid a climate change of more than 1.5 degrees Celsius (2.7 Fahrenheit) involve cleaning up the atmosphere by scrubbing its CO<sub>2</sub>. However, indications are that this process would be expensive.

*David Archer* is a professor in the Department of the Geophysical Sciences at the University of Chicago and a Fellow of the American Geophysical Union. He has extensively published on Earth’s carbon cycle and its interaction with global climate. Dr. Archer has written a series of books on climate change, including *Global Warming: Understanding the Forecast*, a text for non-science major undergraduates now in second edition, and *The Long Thaw: How Humans are Changing the Next 100,000 Years of Earth’s Climate*. He teaches classes on global warming, environmental chemistry, and global biogeochemical cycles, and a free online climate science and modeling class on *Coursera.org*.

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