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An Open Letter to President-Elect Donald Trump and His Administration

We the undersigned are calling on you, in the most urgent terms possible, to maintain our country's commitment to meeting the greenhouse gas emission targets set forth in the Paris Climate Agreement. This agreement is the first of a series of steps required to avert substantial climate change. The Earth's climate is entering a state that has not been experienced in human history. Continuing to produce greenhouse gases at current rates will have catastrophic, unstoppable consequences for our environment, our economy, and our country. Climate change impacts on agriculture are already threatening our ability to feed the nation. Bold and decisive action may still avoid the worst scenarios, allow for adaptation to the changes, mitigate the damage, and bring new economic opportunities and working-class jobs to our country. To this end, we ask that you ensure America's place as the global leader on climate action.

With this letter, we aim to express the degree to which the scientists and intellectual leaders of our institution, speaking for themselves and not on behalf of the University of California, Davis, agree on the facts of climate change. Despite misleading portrayals, there is widespread consensus in the scientific and academic communities that human-caused climate change is real, with consequences that are already being felt. The science of how greenhouse gases trap heat is unimpeachable. Climate records are being broken as human-caused changes add onto natural oscillations (e.g., El Niño) in the climate system. Fossil records from pre-human times show much higher sea levels and a reorganization of vegetation patterns when greenhouse gases were higher and Earth's climate was much warmer than today. Increasing levels of greenhouse gases in our atmosphere set in motion regional variations in weather, weather extremes, the loss of major ice sheets, and declining biodiversity that has been associated with mass extinctions in Earth's past.

Scientists have warned for decades of the dangers of overreliance on fossil fuels. The world has been slow to respond and, as a result, we run an increasing risk of major damage to America's economy and security. We have had an unusually large number of serious natural disasters in the past decade that are in line with climate change predictions. The Southeast and West suffer from increasing droughts. Miami floods at high tide as sea levels rise. Major cities on the Eastern and Gulf coasts regularly suffer major damage from violent weather. Western forests die because winters are insufficiently cold to prevent insect infestation of drought-stressed trees. Left unchecked, the frequency and severity of these climate change events will increase with time, as will their economic impact. To secure and conserve our way of life, our economy, and our environment, we need immediate action.

The United States now has a unique opportunity to lead the world in developing innovative ways to reduce greenhouse gas emissions. By investing in and incentivizing clean energy and carbon sequestration technologies now, we position ourselves to be the economic and political leaders of the 21st century. To do otherwise cedes these opportunities to others and undermines our national security, food security, water security, and the future of our children and grandchildren. For these reasons, we ask you to maintain and increase our country's commitment to taking action on climate change, beginning with the current Paris Climate Agreement.

Signed by¹,

273 faculty members, listed on the following pages.

¹This letter represents the personal views of the signatories, not those of the University of California Regents. Academic titles are included here for identification purposes only. Signatures may be added at <https://docs.google.com/forms/d/e/1FAIpQLSecigy1tP-WuYq1Bovu43AV3Hni4M14AQnZEBDzIX7CDEP3Iq/viewform>. Please direct inquiries or comments regarding this document to Aaron Parsons (aparsons@berkeley.edu).

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