

NSF DEAR COLLEAGUE LETTER: CAS (CRITICAL ASPECTS OF SUSTAINABILITY): INNOVATIVE SOLUTIONS TO CLIMATE CHANGE

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Abstract: This presentation summarizes the goals of this recently issued NSF Dear Colleague Letter (DCL) (<https://www.nsf.gov/pubs/2021/nsf21124/nsf21124.jsp?org=NSF>) Addressing Climate Change through solutions is a high priority of the Administration as well as the NSF. The scientific and engineering community is encouraged to propose innovative solutions in the areas of mitigation and adaptation. Mitigation means efforts to reduce, as much as possible, the emissions and atmospheric concentrations of greenhouse gases. Adaptation means approaches and technologies to enhance the resilience of built, natural, and agricultural, but also human systems to changes in temperature, precipitation patterns, droughts, severe weather, biological changes, socio-economic repercussions, and other effects on our societies. The DCL also encourages interdisciplinary approaches, partnerships, and workshops.

Bio: After undergraduate studies in Austria, Anne-Marie Schmoltner received a PhD in chemistry from the University of California in Berkeley. She was a postdoc at the University of Göttingen in Germany and later performed research in atmospheric chemistry at the NOAA Aeronomy Laboratory in Boulder, CO. From there she moved to NASA in Washington, DC, where she was involved with managing the Upper Atmosphere Research Program. Dr. Schmoltner joined NSF in 1995 as a Program Director in the Atmospheric Chemistry Program. Between 2007 and 2011, Dr. Schmoltner headed the Atmosphere Section. Currently she is the Program Director for Environmental Chemical Sciences in the Chemistry Division. Other professional opportunities and assignments she held at NSF were as Program Director for Aeronomy in the Geospace Section of the Division of Atmospheric and Geospace Sciences, as Program Director in the Office of International and Integrated Activities, and Visiting Scientist at the University of Bremen. In addition to disciplinary programs, Dr. Schmoltner has been involved in a range of interdisciplinary activities, covering areas such as environmental biogeochemistry, sustainability, and nanoscience. She has participated in NSF cross-directorate education and capacity building programs, has

experience with interagency programs and international collaborations, and is interested in promoting broadening participation and inclusion.