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**ABSTRACT**

Water Sustainability in a Changing World

Jerald L. Schnoor\*

The University of Iowa

Iowa City, IA 52242 USA

Water is a vital renewable resource for society which is increasingly stressed by multiple demands of water supply, agriculture, industry, recreation, and ecosystems. Changes in water supply and demands for water are driven by population growth, climate and land use change, and our energy choices (such as biofuels, oil sands, and shale gas). In this talk, we discuss the drivers affecting water sustainability and potential solutions including: adapting to a changing water world, reusing water directly and indirectly, developing resilient water infrastructure, and taking a more holistic management approach to the entire water cycle. Mitigation and adaptation to climate change are grand challenges of the 21st century which must be addressed to make real progress on water sustainability.