Addressing four key challenges in Earth Science education

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This keynote will focus on four key challenges in Earth Science education, each at a different level of the public education system. Participants will consider how students grapple with the scale of some earth science phenomena, how teachers develop expertise, the role of state policies for educational goals, and even historical intertia for the prevalence of physics, chemistry and biology. Jake draws on his experiences as an Earth Science teacher, curriculum developer, teacher educator, and policy maker to illustrate how the four challenges play out in K-12 education and suggests opportunities for geoscience professionals and K-12 educators to address each.