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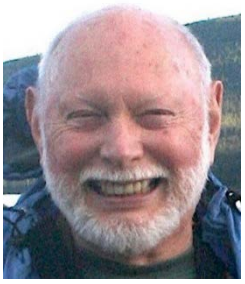
Friday, Jan. 22, 2021. Jeff Mirocha, PhD. LLNL, SJSU. ***What the COVID-19 Pandemic Taught Us about the Climate System.*** Jeff Mirocha is an atmospheric scientist with special interest in renewable energy projects and wildfire dynamics. https://www.llnl.gov/news/three-researchers-co-author-wind-power-papers

Friday, Friday, Feb.19, 2021. Justin Fisch. ***A Land Dedicated to Science - The Antarctic Treaty and its Environmental Protocol***

Mr. Fisch holds a Bachelor of Arts in Sustainability Studies from the University of Florida, and a Bachelor of Laws (LLB) Degree from McGill University, in Canada. Mr. Fisch has worked extensively in forestry research, and geography education throughout his studies. Mr. Fisch is an environmental attorney and also a lecturer & guide with Quark Expeditions. He has been an Arctic Youth Ambassador with Canada Parks. https://www.quarkexpeditions.com/staff/justin-fisch



Friday, March 19, 2021. Ed Clifton- **The Legacy of the Carboniferous**. An insightful examination of the Carboniferous Period – a critical period in animal evolution that set the stage for not only humans, but most of the terrestrial animals extant today. https://tektite2020.com/ed-clifton.html

Friday, April 16, 2021. Roger Wiens. Los Alamos National Laboratory. ***Exploring Mars with NASA's 1-ton Rovers, Curiosity and Perseverance.*** Wiens is the Principal Investigator for ChemCam—one of the instruments being utilized on NASA's Mars rover Curiosity. He was selected as the Principal Investigator of the SuperCam team, which will be operating during NASA's next mission to Mars, set to land on Mars on 2/18/21. His book, *Red Rover: Inside the Story of Robotic Space Exploration* offers a personal glimpse into his journey from childhood to adulthood as one who is fascinated by the heavens. NASA's first SUV-size Mars rover, Curiosity, which landed in 2012, discovered an ancient, long-lived freshwater lake on Mars, showing that Mars may have been as habitable as Earth in its early stages. Curiosity also made the first discovery of organic molecules on Mars. With its landing in February, Perseverance is equipped with the most sophisticated instruments yet, to ensure a better understanding of the Red Planet and to collect the best samples for the return cache. This talk will highlight both missions' searches for life on our sister planet, Mars. https://www.lpi.usra.edu/features/061220/rover/Wiens-Bio.pdf

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