

## EEE Research Seminar

**Date: February 1, 2022 at 10:30 AM EST**

**Location: via Zoom**

<https://purdue-edu.zoom.us/j/92195673362>

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## Environmental Assessment of Infrastructure

### **Abstract**

Infrastructure is all around us, sometimes apparently, other times less so: transportation, buildings, water and wastewater systems, energy, telecommunications. Their environmental impacts are similarly obvious or more difficult to estimate: human health through ecological impacts to global warming. One of the most important obligations engineers and scientists have is to design, build, operate, and replace these society-wide systems with the least environmental impacts. This is very challenging for many reasons. This presentation reviews the methods and tools of environmental assessment, discusses how far we have gotten, shares a few case studies, and makes recommendations how we could do a better job now and in the future.

### **Bio**

Arpad Horvath is the L.E. Peirano Professor of Civil and Environmental Engineering at the University of California, Berkeley, Head of the Energy, Civil Infrastructure and Climate Graduate Program, and the Director of the Transportation Sustainability Research Center. He has conducted studies on the environmental implications of various products, systems, and services, in particular, transportation, water and wastewater, buildings, concrete, biofuels, and pavements. He is Editor-in-Chief of Environmental Research: Infrastructure and Sustainability, and serves on the Editorial Board of Environmental Research Letters and Journal of Industrial Ecology. Among other engagements, he is a past member of the U.S. Environmental Protection Agency's Science Advisory Board, Environmental Engineering Committee.