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**Environmental Engineering**

**and Earth Sciences**

**EEES Department Seminar**

**Sustainability, Resilience, and…Adaptability? Qualities of Next-Generation Buildings**

**Dr. Brandon E. Ross**

Glenn Department of Civil Engineering

Clemson University

A person wearing glasses

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This presentation will provide a narrative summary and retrospective look at my six-year NSF CAREER project on *Quantifying the Adaptability of Building Structures, Envelopes, and Foundations.* The narrative includes a mansion in Seattle, a bus ride in Florida, and a book chapter written in German! Along the way, I will describe the philosophic underpinnings of adaptability and how Design for Adaptability (DfA) can be used to deliver sustainable and resilient infrastructure. I will use case studies to illustrate how DfA principles can be practically applied to buildings. Finally, I will discuss the project’s research methods, findings, and lessons learned. In short, I intend to provide the audience with an introduction to DfA, some hard-earned lessons on conducting research, and encouragement to keep working through challenges.

**2:30 PM**

**Friday, October 29, 2021**

**Rich Lab Auditorium**

**Also available online via Zoom:**

<https://clemson.zoom.us/j/5783910968>

***Attendance is mandatory for graduate students enrolled in EES 8610, EES 9610, and GEOL 8510.***