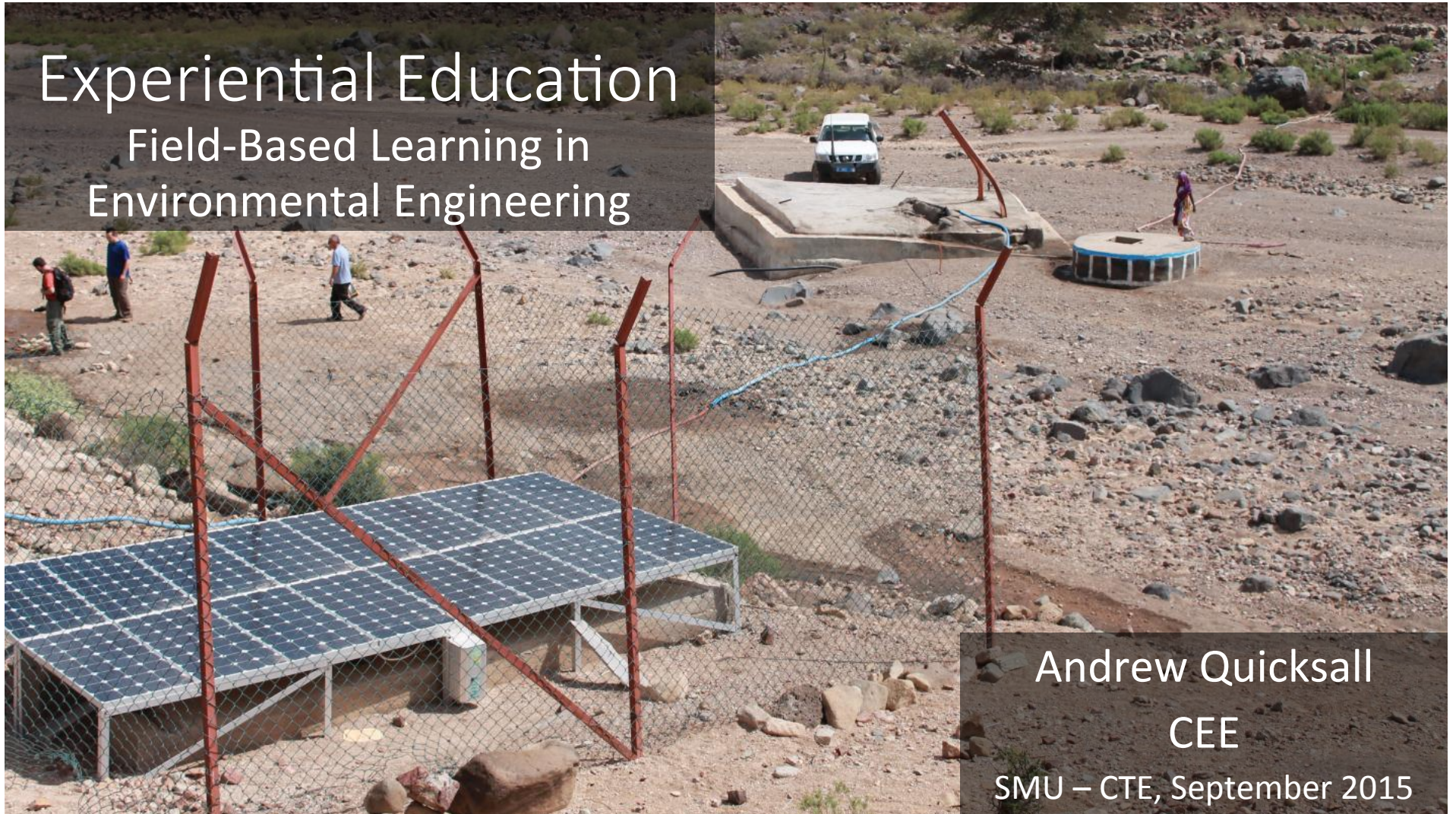


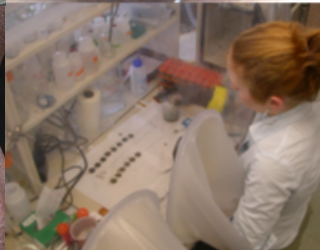
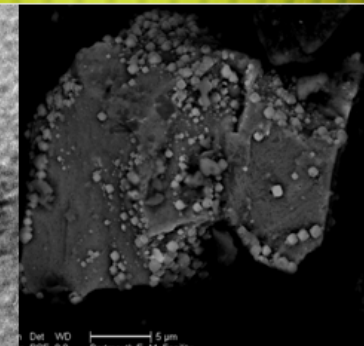
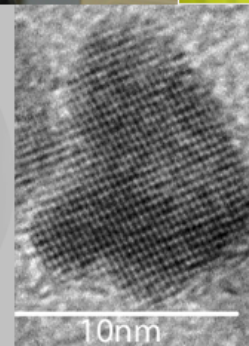
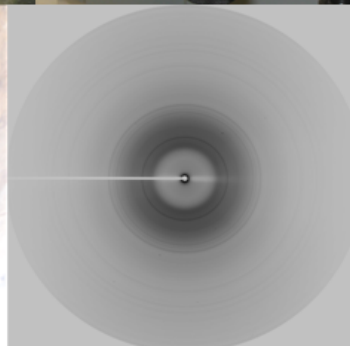
Experiential Education

Field-Based Learning in Environmental Engineering



Andrew Quicksall
CEE

SMU – CTE, September 2015



WATER & SOIL CHEMISTRY LAB @ SMU



Engineers without Borders

- Mexico
- Guatemala
- Bolivia
- Rio Grande Valley
- Rwanda



A photograph of three people smiling for a selfie. In the center is a man with a beard and sunglasses. To his left is a woman with long brown hair. To his right is a woman with glasses and a blue jacket. In the background, a whiteboard has some handwritten notes, including 'Ksp' and 'pH'.

Teaching

- *First Year Design*
- *Aquatic Chemistry*
- *Advanced Topics*
- *Env. Eng. Laboratory*
- *Field Courses*

Field Methods for Soil & Water Analysis



Design for the Developing World



Advanced Environmental Field Methods



Preparation & Training

- Travelled internationally and done sampling with 15 (1 twice) undergrads
- 3 had been through a Taos course
- Travelled internationally for research sampling with 5 grads (2 twice and 1 thrice)
- 4 of 5 had been through Taos (2 twice)

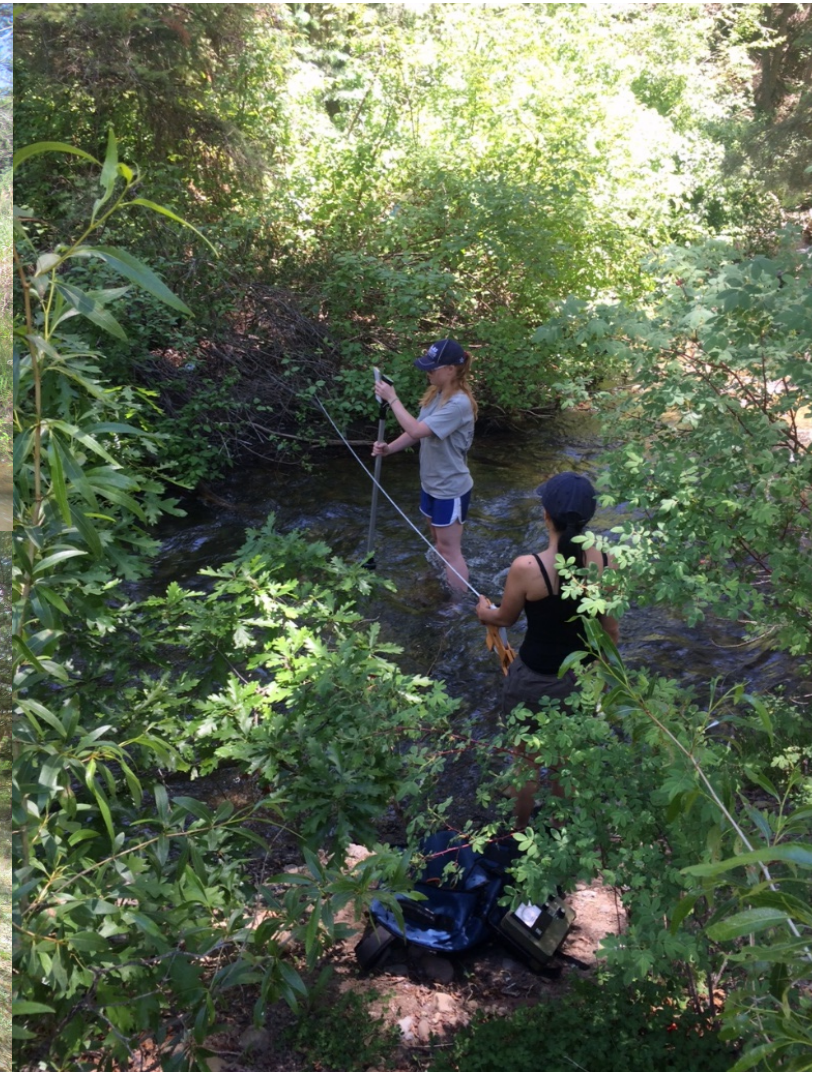




High Alpine Lake Sediment Coring



On Campus Soil & Water Sampling



Non-Traditional “Classroom” Settings



“The times I learned the most were the times when I could actually see and do what I was learning, not just hear about it in a classroom.”

“Taos was an amazing classroom...”

“This was the best academic experience of my undergraduate career.”

