# **REU|2017**

Summer Program for Interdisciplinary Research and Education – Emerging Interface Technologies (SPIRE – EIT)



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# CooL:SLiCE

# Interface for Sustainable Supply Chain Management

Faculty: Gül Kremer (gkremer@iastate.edu)

Grad Mentor (Post Doc): Kijung Park (kjpark@iastate.edu)
Interns: Natalie Blodgett, Masashi Schafer, and Jameel Kelley

Team Meeting Location: REU Area in VRAC

Iowa State has collaborated with Wayne State, Penn State, and Oregon State to create CooL:SLiCE (Constructionism in Learning: Sustainable Life Cycle Engineering), a web-based engineering education platform. CooL:SLiCE is designed to support a holistic sustainable product life cycle engineering experience by demonstrating the effects of changes in product designs on manufacturing and supply chain lead time, costs, and environmental impacts. This novel technology integrates engineering design tools with core educational concepts in manufacturing and sustainable supply chain management.

Version 1 of the software has been developed. The REU team will 1) investigate whether the CooL:SLiCE manufacturing analysis and sustainable product architecture and supplier selection (SPASS) modules engage students in active learning, and 2) determine the most appropriate methods for improving the flexibility of the existing CooL:SLiCE manufacturing analysis and SPASS modules. The team will use a drone as an example product platform to prototype a user-friendly, web-based Version 2 GUI to facilitate education of undergraduate students about manufacturing process analysis and sustainable supply chain management.

# Blogs

- Devi AcharyaKatherine Atwell
- Natalie Blodgett
- 1 Valanc Blodgett
- Emanuel Bustamante
- Emma Dodoo
- Austin Garcia
- Brittney Hill
- Christopher Kawell
- Jameel Kelley
- Sofia Loya
- Sushi Schafer
- Alfredo Velasco II

#### Courses

- C++
- Maya
- Solidworks
- Intro to HCI
- Craft of Research
- Graft of Rese
   Journal Club
- Deeper Dives
  - Unity Shaders & GPU
  - Unity Immersive3-D Printing

# Recent Posts

- Day 67: Goodbye, forever
- Day 66: Last day
- Day 64 and 65: Ice Skating and posters
- Airplane ride back to El Paso
- one last post : long —
- Wrapping up (Sort of...)
- Almost Done
- Day 62 and 63: Last Monday, I Gave You My Heart
- Log Date 8 2 17 Glossy
- its the LAST WEEK | WEEK 10(britt)
- Thirty Fourth Post
- Roomies Dine at Downtown Deli
- — #1
- The Final Week
- Last week here...

## Recent Comments

- acgarcia on The Final Countdown
- blodgett on Roomies Dine at Downtown Deli
- edodoo on Roomies Dine at Downtown Deli
- amjasper on I Can See Clearly Now... wait
- avelasco on Day 60-61: Goodbye, Yellow Brick Road

### Meta

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