

BTES

BUILDING
TECHNOLOGY
EDUCATORS'
SOCIETY

The Building Technology Educators' Society (BTES) is an organization of architectural educators, passionate about teaching the technology of building design and construction. The mission of the BTES is to promote and publish the best pedagogic practices, relevant research, scholarship, and other creative activity to facilitate student learning, advance innovation, and enhance the status of our disciplines in the profession at large. The BTES is a 501(c)(3) non-profit organization

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Reflect, Connect, Project

2020 BTES Summer Webinar Series

Session 2 | Testing + Experimentation

Chat Capture

Tuesday, July 21st | 4:00pm - 5:30pm edt

Elizabeth Grant For David Ogoli: what CFD tool did you use, and what was the scale shown on the airflow studies (ranging from blue to red)? Was it Cp, or airflow, or some metric of thermal comfort?

David Mwale Ogoli Autodesk CFM Ultimate. Air flow was measured by wind speed in FPM (Feet per minute). Thermal comfort was measured in PMV ranging from -3 Cold, 0 Neutral and +3 Hot

Elizabeth Grant Thank you.

Christopher J Domin Aletheia and Laura, Thank you for the presentation. Two Questions: How did iterative development shape the projects? How can you best move air movement into this digital analysis? Is it feasible in this context?

Winifred Newman All - Have to go, but really enjoyed seeing the presentations! Stay safe!

Elizabeth Grant Are all of you using software that is free to students? If not, what is the students' willingness to pay for different software packages?

Ming Hu Carmen, the online exam/vignette are so great! Couple questions: (a) I am wondering whether your students have done similar vignette exercise prior to taking the exam? (So they are familiar with such format) (b) how long it take you to grade those blended vignettes?

Amber Bartosh Elizabeth, all of the software and platforms used for the XR course were free to the students. I targeted those and try to minimize equipment costs as well.

Elizabeth Grant Thank you, Amber.

Carmen Trudell @Ming. (a) Yes, in our case, the students had taken the exams fall, and winter midterm. However, this coming fall, they will be taking these for the first time in a remote format. (b)We have 4 student assistants who do the grading. Each one of them grades 1 question for all 150-180 students. It takes each student assistant about 8 to 10 hours to grade their question. We can usually turn-back the graded work in 1.5 weeks. I also skim through and check the grading, and crunch the numbers and decide if we need a curve. That takes a few days.

Ming Hu Carmen. Thank you! :)

Robert Perkins Thank you so much for the excellent presentations.

Elizabeth Grant @David, thank you for answering my question also.

Aletheia Ida Thank you, Christopher. We found the iterative design and analysis, beginning with the paper/physical modeling to develop intuition, was important for the overall procedural methods and providing rational for design decision learning at the second-year level.

- Deborah Oakley Question for Tyler: How many students were in your class and did you have assistants helping to assemble kit of parts? Seems like this would be challenging in a larger class.
- Christopher J Domin Thanks to everyone for the presentations and discussion. Sincerely, appreciated.
- Tyler S Sprague Hi Deb: Our studio had 14 students, which was a great number - and yes, manageable to do a box delivery. I was able to collect materials and process from my garage. Our department, however, was able to keep shop facilities open so it might have been possible to get some help in assembling.
- Tyler S Sprague Also - many students were still local. So I could leave some boxes at a secure location for a no-contact pick up. The rest were sent through mail.
- Carolina Manrique Hoyos Great presentations and discussion. Thank you!
- Rosemarie Rusch Excellent suggestions for different options. Thank you.
- Aletheia Ida @Elizabeth Grant, we set up remote access to our computer lab workstations so that students did not have to purchase their own software. If they wanted to install their own software, especially in cases where student internet access was challenged, they would need to buy an educational Rhino license. All other analysis tools are free plug-ins, but requires us (instructors) to set up the coding templates for students at this level of education.
- Laura Carr Thank you everyone for the presentations and discussions.
- Elizabeth Grant I appreciate the explanation, Carmen--helpful for considering tests in this new environment.
- Karen Kensek Rhino licenses are extremely cheap if School's buy the licenses.
- david thaddeus Tyler; were the shops open with social distancing? We are struggling to figure out how to keep "making" in studio work with social distancing in fabrication shops
- Tyler S Sprague Hi David: The shop staff was able to stay on, and a furniture studio ran. With all online instruction, students coordinated with shop staff to prototype ideas and design. Kimo Griggs here was able to manage the restrictions - I'd be happy to put you in touch.
- Karen Kensek <https://www.rhino3d.com/en/6/new/licensing-and-administration>
https://www.rhino3d.com/en/sales/north-america/United_States about \$35 per floating license
- Michelle Laboy I apologize for not unmuting but my child arrived and he is being very loud.
- Rosemarie Rusch In Australia w are using drones - not that expensive. Yes, go pro as well.
- Aletheia Ida We have to have drone certifications/licenses before our university will allow us to use the institution's drone equipment.

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| Deborah Oakley | Thank you to all presenters. This was great! :-) |
| Karen Kensek | Thanks, everyone! |
| Deborah Oakley | And thanks to the board for setting this up! |
| david thaddeus | Thank you all for excellent presentations and discussion |
| Robert Dermody | Thanks everyone...great presentations! |
| Tyler S Sprague | Thanks to all! |
| Niloufar Emami | Thank you all! |
| Aletheia Ida | Thank you everyone! |
| Clifton Fordham | Thanks! |
| Terri Boake | Thanks. Very helpful. |
| Ahmed K. Ali | Thank you all, amazing colleagues! |
| Rosemarie Rusch | Thanks! |
| David Mwale Ogoli | Thank you everyone |