

# IOWA STATE UNIVERSITY

## SOCIETY OF CARILLON ALUMNI AND FRIENDS

VOLUME 14, ISSUE 1

SUMMER 2021

### SEMESTER CARILLON LESSONS ON MOBILE CARILLON AGAIN

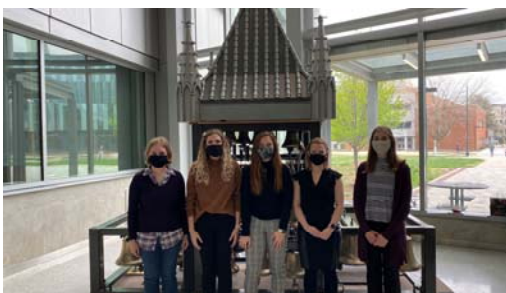
The carillon students continued their performances on the model carillon during the spring semester.

Continuing students:

- Cavannah Yap, senior in Genetics
- Macklin Derscheid, senior in Music
- Megan Goodhue, junior in Public Relations
- Carolyn Riedel, graduate student in Aerospace Engineering
- Ola Carnahan, Senior in Aerospace Engineering
- Brian Kempa, graduate student in Aerospace Engineering
- Rebekah Veldboom, sophomore in Environmental Science

First semester student:

- Emily Huisinga, junior in Software Engineering



*top l. to r. Emily Huisinga, Anelise Gebard (vocalist), Megan Goodhue, Carolyn Riedel, Rebekah Veldboom.*



*l. to r. Jim Wang (vocalist), Cavannah Yap, Ola Carnahan, Brian Kempa, Aaron Eckley (vocalist).*

### GCNA PRESENTATION

Dr. Tam, along with Mechanical Engineering Professor Jim Heise, and Theatre Professor Robert Sunderman gave a virtual presentation on April 13th for the Guild of Carillonneurs in North America.

“A Work of Art and Engineering – Iowa State University Campanile- Carillon Model” included details from the inception to the current work on the model.

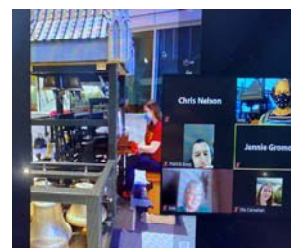


### CARILLON SCHOLARSHIPS

The Stanton Carillon/ Beers-Doe Scholarship awards scholarships to cover the cost of student lessons. This year 5 students were recipients.

### SOCIETY MEETING

The society met virtually this year live from Sukup Atrium, with hosts Amy Brandau, president of the society, and Ola Carnahan, current carillon student, with an assist from Dr. Tam with the video. Members were encouraged to share their memories of either the campanile or mobile carillon. Amy and Ola each played a selection on the mobile carillon.



## ME 415 REFLECTION: SAFETY AND FAÇADE PANELS

### BY: ADITYA GOHAIN

I was introduced to the Model Carillon project during my freshman year. Seeing how this project connected architecture, engineering, music, and the history of Iowa State all together, sparked a passion in me to take up this project during my senior year.

This past semester, being a co-team leader for this project marked the highlight of my academic career at ISU. I would like to thank my teammates, Professor James Heise, and Dr. Tin Shi Tam, as they worked tirelessly, and contributed to this project. Due to covid regulations, all teams in ME 415 were restricted the use manufacturing labs. In person classes were also limited to alternate days. As a reason, on the first day, both teams for this project decided to merge into a super team to boost common ground, and communication for this project.

Our goal was to improve the past designs and bring forth dependable solutions as an iteration to what had been done in the past. We realized that the original scissor lift design was unstable and weak, therefore the team proposed an alternate material choice for durability, designed a new joint system for the scissor frame that reduced sway during lift, and a sturdy jack screw mechanism at the bottom that distributed the loads equally. Additionally, the team also proposed efficient transportation solutions for the façade panels by designing collapsible containers that were durable on the outside and provided protection to on the inside while consuming less area during transport and set up. The team also designed a power mover that could easily move the heavy structure during transportation with minimal requirement.

This project allowed our team to learn various aspects of improving designs, and conceptualizing engineering solutions. We also learned to communicate through the barrier of being virtual and develop ourselves as future engineers. It will be great to see how the progress made teams in the future, and how our contributions combine into a final product.

