**Upcoming Meeting**

**HEAT EXCHANGERS**

RJ Santiago from Dawson Company will be presenting on heat exchangers, the basics of heat transfer theory, and heat exchanger design. Attendees of this presentation will learn heat transfer terminology and formulas, and how to balance specifying the operating conditions versus initial size of the heat exchanger. During the presentation RJ will: § Discuss heat transfer terms § Show calculation of heat load § Show how changes in parameters impact size and cost § Explore advantages & disadvantages of different types of heat exchangers.

RJ Santiago is part of Dawson Company’s Business Development Group assisting mechanical and plumbing engineers with their hydronic needs. RJ graduated from California State University, Fullerton with a B.S. degree in Mechanical Engineering, with certifications on Certified Plumbing Design (CPD). He began his career as a designer for an engineering firm. In less than two years, he advanced to the level of Project Manager where he led a group of top engineers working on local and international projects in which he learned to satisfy peculiar requirements by various clients.

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* Manny Perez swears in Walter Escamilla (left), Kendal Smith (center), and Abhi Sah (right), and Jhonattan Sebastian (below)

* Board Members Felix Monterosso, Kakeru Fujikawa, & Manny Perez (above right)

* New Tri County Officers with Manny Perez (below right)
Our Heroes

Walter Escamilla presenting the Gavel Plaque to Past President Manny Perez, for a job well done (above left)!

New President Elect Kendal Smith with wife Jo (left), James Mansfield with fiancée Brooklyn (center), and Robert Woods (right)
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By Kevin Le (Student Activities Chair)

On the morning of August 1st, 2022 we were informed our Cal Poly Pomona ASHRAE Design Competition entry had placed third in the ASHRAE Design Competition Design Calculations category. Mustafa, Sean, and I were filled with surprise and relief. We were surprised because we believed that we provided an unrefined report to ASHRAE. It was a time crunch because we had to submit our report during the first week of May, which was prior to the University’s senior project deadline. Although we worked on the project all school year long, the scope of the project was too large for us to be detailed in all aspects. We were essentially tasked to design an entire VAV AHU system for a 250,000 square foot higher education building from scratch. This required immense research and networking. Our gaps in knowledge were filled by various industry professionals, which mentored us on design principles that were implemented in the real world.

Our team continuously met on a weekly basis and there were weeks where we collectively spent more than 40 hours working on the project. We worked relentlessly because most of us were pursuing an HVAC career and wanted to end our undergraduate career on a high note. With such amount of effort dedicated to this report, it was relieving to find out that we placed 3rd internationally. We were glad to see that the judges were holistic and saw innovation in our design. Historically the Cal Poly Pomona ASHRAE Student Branch has competed in the Systems Selection category and placed against top universities. We’re proud to demonstrate that our engineering department is multifaceted with the ability to excel in other categories.

With our placement, we have been invited to attend the 2023 ASHRAE Winter Conference in Atlanta, Georgia. Mustafa, Sean, and I will be traveling to Atlanta in February to collect our award at the ASHRAE Plenary. We are thankful to everyone (see below) who helped us along the way.

Professor Anderson – Faculty Advisor
Michael Franzen – Franzen Consulting
James Lafond – P2S Inc.
Amanda Khury – P2S Inc.
Nelson Echeverry – Donald F. Dickerson Associates
Eric Margosian – Syska Hennessy Group
Peter Micu – ACCO Engineered Systems
Adam Link – ACCO Engineered Systems
Bob Woods – Air Treatment Corporation
Narinder Kumar – JMD Equipment Sales
Armondo Avila – Peabody Engineering

S TUDENT A C TIVITIES R EPORT
Our ASHRAE Tri-County leaders for the 2022-2023 season!

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Secretary: Abhimanyu Sah / Willdan Energy Solutions
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*I pledge allegiance*
2022-2023 PARTIAL ROSTER

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Committee Chairs

Chapter Technology Transfer
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Goss Engineering, Inc. — 714-310-8126

Student Activities
Kevin Le
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Research Promotion
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Newsletter Editor
Jim Toda
Custom Cooling Company — 909-599-9222

Everyone in Tri-County is responsible for building a better tomorrow!

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