Michael Bichnevicius

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Education

Massachusetts Institute of Technology

M.S. in Mechanical Engineering, 2021

Pennsylvania State University

B.S. in Mechanical Engineering, 2019

Awards

2019 National Science Foundation Graduate Research Fellowship
2019 The Douglas and Regina Evans Award for Research Achievement
2018 Dr. Karidis Department Head's Award for Research Achievement
2015 Provost Scholarship
2015 Schreyer Honors College Scholarship

Publications

1. Bichnevicius, M., Saltzman, D., and Lynch, S., 2019, "Comparison of louvered plate-fin heat exchangers made via additive manufacturing," Journal of Thermal Science and Engineering Applications, American Society of Mechanical Engineers.

2. Bichnevicius, M., Saltzman, D., and Lynch, S., 2018, "Comparison of louvered plate-fin heat exchangers made via additive manufacturing," International Mechanical Engineering Congress & Exposition, American Society of Mechanical Engineers.

3. Saltzman, D., Bichnevicius, M., Lynch, S., Simpson, T., Reutzel, E., Dickman, C., and Martukanitz, R., 2018, "Design and evaluation of an additively manufactured aircraft heat exchanger," Applied Thermal Engineering, 138, pp. 254-263.

4. Saltzman, D., Bichnevicius, M., Lynch, S., Simpson, T., Reutzel, T., Dickman, C., and Martukanitz, R., 2017, "Experimental comparison of a traditionally built versus additively manufactured aircraft heat exchanger," 55th AIAA Aerospace Sciences Meeting, American Institute of Aeronautics and Astronautics.

Presentations

1. "Castable cement tanks and piping for molten salt circulation loop," 2019 conference presentation at the 2nd Pacific Rim Thermal Engineering Conference (PRTEC).

2. "Comparison of louvered plate-fin heat exchangers made via additive manufacturing," 2018 conference presentation at the ASME International Mechanical Engineering Congress and Exposition (IMECE).

3. "Evaluation of a CO2 ground-source heat pump," 2018 talk at NIST Summer Undergraduate Research Fellowship (SURF) colloquium.

4. "Experimental testing of low global warming potential refrigerants," 2017 talk at NIST Summer Undergraduate Research Fellowship (SURF) colloquium.

5. "Effect of inlet flow disturbances on compact, cross-flow heat exchanger performance," 2017 poster at Penn State College of Engineering Research Initiative poster session.