Editorial

On behalf of the editors, welcome to the first issue of the second volume of the Journal of Aviation Technology and Engineering (JATE). This issue contains a collection of five articles which highlight the breadth of research in aviation—delving into areas of engineering, psychology, and education.

First, Chistopher Chung from the University of Houston takes a different look at airline seating configurations to determine optimal layouts for minimizing passenger loading time. While most studies on this topic assume a standard seating layout, Chung explores how the seat configuration itself affects loading times.

Next, William Tuccio and Harold Townsend of Embry-Riddle use linear programming methods to help increase the speed at which forensics reporting can be completed after an airplane crash. They create a model for accurately meshing information from the cockpit voice recorder and flight data recorder after an accident.

A team of Purdue University researchers follows with an article about ways to integrate technologically advanced aircraft (TAA) into an aviation curriculum. With the rapid increase in the number of TAA in both the classroom and the future workplace of our graduates, it is imperative that integration be smooth and rich in learning opportunities. Lessons learned are captured by faculty members Timothy Ropp, Jay Hedden, Philip Mick and J. Mike Davis, and graduate student S. Wesley Austin Jr.

With respect to student populations, a group of researchers at Southern Illinois University Carbondale investigate the extent to which aviation students are affected by the Dunning–Kruger Effect. Faculty members Samuel Pavel, Mike Robertson, and Bryan Harrison find that students can be unaware of how little they know about a subject, and therefore become overconfident in their abilities.

Finally, graduate student Christopher Brock and faculty member David Stanley of Purdue University discuss issues surrounding the removal of lead from aviation gasoline and the research opportunities available as the Environmental Protection Agency continues to investigate lead emissions resulting from these fuels.

The editors thank you for your interest in both aviation research and our journal. We hope you enjoy these articles and the breadth of area covered in this issue.

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