

Scott K. Thomas
Associate Professor

Date of Initial Appointment: September 1, 1993

EDUCATION

Institution	Field of Study	Degree/Date
University of Dayton Wright State University	Mechanical Engineering	Ph.D., 1993
Wright State University	Mechanical Engineering	M.S., 1989
Wright State University	Mechanical Engineering	B.S., 1986

PROFESSIONAL EXPERIENCE

Institution	Position	Dates
Wright State University	Associate Professor	1999 - present
Wright State University	Assistant Professor	1993 - 1999
Wright Patterson Air Force Base	Summer Faculty Fellow	2001
Wright Patterson Air Force Base	Sabbatical Leave	2000-2001
Wright Patterson Air Force Base	Summer Faculty Fellow	1996
Monarch Marking Systems	Research Consultant	1996
Wright Patterson Air Force Base	Summer Faculty Fellow	1995
NASA/Lewis Research Center	Summer Faculty Fellow	1994

PUBLICATIONS

Journal Papers (22 total):

1. Michalak, T., Yerkes, K., Thomas, S., and McQuillen, J., 2010, "The Effect of Variable Gravity on the Cooling Performance of a Partially-Confined FC-72 Spray," accepted, *AIAA Journal of Thermophysics and Heat Transfer*.
2. Fleming, A., Thomas, S., and Yerkes, K., 2010, "Titanium-Water Loop Heat Pipe Operating Characteristics Under Standard and Elevated Acceleration Fields," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 24, No. 1, pp. 184-172.
3. Puterbaugh, R., Yerkes, K., and Thomas, S., 2009, "The Effect of Dissolved Air on the Cooling Performance of a Partially-Confined FC-72 Spray," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 23, No. 3, 582-591.
4. Elston, L., Yerkes, K., Thomas, S., and McQuillen, J., 2009, "Cooling Performance of a 16-Nozzle Spray Array in Variable Gravity," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 23, No. 3, pp. 571-581.
5. Yerkes, K., Michalak, T., Baysinger, K., Puterbaugh, R., Thomas, S., and McQuillen, J., 2006, "Variable-Gravity Effects on a Single-Phase Partially-Confined Spray Cooling System," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 20, No. 3, pp. 361-370.

Conference Papers (24 total):

1. Fleming, A., Thomas, S., and Yerkes, K., 2010, "Titanium-Water Loop Heat Pipe Operating Characteristics Under Standard and Elevated Acceleration Fields," *Proc. 48th AIAA Aerospace Sciences Meeting*, AIAA Paper No. 2010-1365.

2. Elston, L., Yerkes, K., Thomas, S., and McQuillen, J., 2009, "The Effect of Variable Gravity on the Cooling Performance of a 16-Nozzle Spray Array," *Proc. 47th AIAA Aerospace Sciences Meeting and Exhibit*, AIAA Paper No. 2009-1025.
3. Elston, L., Yerkes, K., Thomas, S., and McQuillen, J., 2009, "Qualitative Evaluation of a Liquid-Vapor Separator Concept in Micro-Gravity Conditions," *Proc. 13th Conf. on Thermophysics Applications in Microgravity*, Vol. 1103, pp. 1-13.
4. Webb, A., Birkmire, B., Baugher, J., Rattan, K., Thomas, S., and Gallagher, J., 2008, "Navigation and Sensor Integration in an Autonomous Lawnmower," *Proceedings of the ION GNSS 21st International Conference*.
5. Michalak, T., Yerkes, K., Puterbaugh, R., Thomas, S., and McQuillen, J., 2007, "Cooling Performance of a Partially-Confined FC-72 Spray: The Effect of Variable Gravity," *Proceedings of the 45th AIAA Aerospace Sciences Meeting and Exhibit*, AIAA 2007-198.

PROFESSIONAL SOCIETIES

1. Associate Fellow AIAA 1988 2. Associate Member ASME 1993 4. Member Tau Beta Pi 1993

AWARDS AND HONORS

- Excellence in Professional Service, WSU CECS 2009
- Excellence in Teaching Award for Faculty, WSU CECS 2003
- Faculty Excellence and Innovation Award, SOCHE 2003

INSTITUTIONAL AND PROFESSIONAL SERVICE

Level	Type of Service	Dates	Level	Type of Service	Dates
Dept.	Petitions, Honors and Awards	2005-11	Coll.	Ph.D. Program Affairs	2005-06
Dept.	Admissions	2002-06	Univ.	Univ. Librarian Review	2005-08
Dept.	Thermofluids Program	2008-11	Univ.	Grad. Council	2002-05
Dept.	Faculty Search	2010-11			
Dept.	Faculty Development Ctte.	1996-11			
Dept.	ABET	2004-06			
Coll.	Faculty Development	2011			
Coll.	Faculty Development	2007-08			

*Dept. = Department, Coll. = College, Univ. = University, Nat. = National, Ctte. = Committee