

Seth A. Norberg
Lieutenant Colonel, United States Army

Academic Background.

BSME (1995) The Ohio State University
MSME (2005) The Ohio State University

Teaching Experience.

Department of Civil and Mechanical Engineering,
United States Military Academy (June 2005 - June 2008)

ME311, Thermal-Fluid Sciences I (06-1), Course Director (06-2, 07-1, 08-1)
ME312, Thermal-Fluid Sciences II (07-2), Course Director (08-2)
XE495, Topics: Advanced Technology, Course Director (07-1, 07-2, 08-2)

Journal Articles:

Arnas, Ö., Boettner, D., Tamm, G., **Norberg, S.**, Whipple, J., Benson, M., Van Poppel, B. (2010), "On the Analysis of the Aerodynamic Heating Problem," *Journal of Heat Transfer*, Vol. 132, Issue 11, 124501 (4 pages).

Arnas, Ö., Boettner, D., **Norberg, S.**, Tamm, G., Whipple, J. (2009), "On the Teaching of Performance Evaluation and Assessment of a Combined Cycle Cogeneration System," *Journal of Energy Resources Technology*, Vol. 131, Issue 2, 025501 (7 pages).

Norberg, S., Tamm, G., Highley, J., Rounds, M., Boettner, D., Arnas, Ö. (2009), "Teaching Thermodynamics via Analyses of the West Point Power Plant," *International Journal of Green Energy*, Vol. 6, Issue 3, Pp. 230-244.

Arnas, Ö., Boettner, D., **Norberg, S.**, Tamm, G., Whipple, J. (2009), "On the Teaching of Performance Evaluation and Assessment of a Combined Cycle Cogeneration System," *Journal of Energy Resources Technology*, Vol. 131, Issue 2, 025501 (7 pages).

Hicks A., **Norberg S.**, Shawcross P., Lempert, W. Rich J., Adamovich, I., (2005), "Singlet Oxygen generation in a high pressure non-self-sustained electric discharge", *J. Phys. D: Appl. Phys.* 38, Pp. 3812-3824.

Articles in Conference Proceedings:

Norberg, S., 2010, "An overview of the 2009 Fort Hood robotics rodeo", *Proceedings, SPIE Symposium on SPIE Defense, Security, and Sensing*, Orlando, FL, April 5-9, Paper #7692-48

Norberg, S., 2008, "Commercial Breaks in the Classroom", *Proceedings, ASEE Annual Conference and Exposition*, Pittsburgh, PA, June 22-25, Paper #AC2008-2407

Tamm, G., Boettner, D., Arnas, A., **Norberg, S.**, 2008, "Renewable Energy Education of Future Army Leaders at the United States Military Academy", *Proceedings, ASEE Annual Conference and Exposition*, Pittsburgh, PA, June 22-25, Paper #AC2008-2203

Arnas, A., Boettner, D., **Norberg, S.**, Tamm, G., Whipple, J., 2008, "On The Teaching of Performance Evaluation and Assessment of a Combined Cycle Cogeneration System", *Proceedings, ASME Turbo Expo 2008: Power for Land, Sea, and Air*, Berlin, Germany, June 9 -13, Paper #GT2008-50859

Arnas, A., Boettner, D., Tamm, G., **Norberg, S.**, Whipple, J., 2008, "On The Teaching of the High Speed Aerodynamic Heating Problem", *Proceedings, 6th International Conference on Heat Transfer, Fluid Mechanics, and Thermodynamics*, Pretoria, South Africa, 30 June to 2 July, Paper #AA4

Norberg, S., Tamm, G., Highley, J., Rounds, M., Boettner, D., Arnas, O., 2007, "Exergetic Analyses of the West Point Power Plant," *Proceeding of The Third International Energy, Exergy, and Environment Symposium*, IEEEES3, Evora, Portugal, Jul 1-5, Paper #058

Boettner, D.D., **Norberg, S.A.**, Melnyk, R.V., Highley, J.L., Rounds, M.J., and Arnas, A.Ö., 2006, "Teaching the Fundamentals of Thermodynamics and Fluid Mechanics through an Integrated Systems Approach," *Proceedings of the 2006 ASME International Mechanical Engineering Congress and Exposition*, Chicago, IL, November 5-10, IMECE2006-13815

A. Hicks, S. **Norberg**, P. Shawcross, W.R. Lempert, J.W. Rich, and I.V. Adamovich, 2005, "Development of a Non-Self-Sustained Electric Discharge Pumped Oxygen-Iodine Laser", *Proceedings of the 36th Plasmadynamics and Lasers Conference*, Toronto, ON, June 6-9, Paper #2005-4916

A. Hicks, S. **Norberg**, P. Shawcross, W.R. Lempert, J.W. Rich, I.V. Adamovich, and S. Wehe, 2005, "Singlet Oxygen Generation in a High Pressure Non-Self-Sustained Electric Discharge", *Proceedings of the 43rd Aerospace Sciences Meeting and Exhibit*, January, Reno, NV, Paper #2005-0745

Other Work:

Norberg, S. "Singlet Oxygen Generation in a High Pressure Non-Self-Sustaining Electric Discharge." *Master's Thesis*, The Ohio State University, June, 2005.