

Sang Hee Won
Department of Mechanical and Aerospace Engineering
Princeton University
Engineering Quadrangle, Princeton NJ 08544
TEL: +1-609-258-1411, E-mail: sangwon@princeton.edu



EDUCATION

- 2000 – 2004 • Ph. D. in Mechanical and Aerospace Engineering, **Seoul National University**.
- 1998 – 2000 • M. S. in Mechanical Engineering, **Seoul National University**.
- 1993 – 1998 • B. S. in Mechanical Engineering, **Seoul National University**.

WORK EXPERIENCE

- Aug. 07 – Present • Postdoctoral Research Associate, **Princeton University**.
- 2006 – 2007 • Post Doc., **Korea Institute of Science and Technology**.
- 2004 – 2006 • Post Doc., **Seoul National University**.

PROJECT WORK

- **Ph. D. Dissertation:** Experimental Study on the Stabilization and Oscillation of Lifted Flame in Coflow Jets.
- Edge flame stabilization and propagation.
- Plasma assisted combustion & Enhancement of combustion with electric fields.
- Laser diagnostics.
- Microgravity experiments.

PUBLICATIONS

- K. N. Kim, S. H. Won, and S. H. Chung, "Characteristics of Turbulent Lifted Flames in Coflow Jets with Initial Temperature Variation," Proc. Combust. Inst. Vol 31, pp. 1591-1598 (2007).
- K. N. Kim, S. H. Won, and S. H. Chung, "Characteristics of Laminar Lifted Flames in Coflow Jets with Initial Temperature Variation," Proc. Combust. Inst. Vol 31, pp. 947-954 (2007).
- M. K. Kim, S. H. Won, and S. H. Chung, "Effect of Velocity Gradient on Propagation Speed of Tribrachial Flames in Laminar Coflow Jets," Proc. Combust. Inst. Vol 31, pp. 901-908 (2007).
- S. H. Won, M. S. Cha, C. S. Park, and S. H. Chung, "Effect of Electric Fields on Reattachment and Propagation Speed of Tribrachial Flames in Laminar Coflow Jets," Proc. Combust. Inst. Vol 31, pp. 963-970 (2007).
- J. Kim, K. N. Kim, S. H. Won, O. Fujita, J. Takahashi, and S. H. Chung, "Numerical Simulation and Flight Experiment on Oscillating Lifted Flames in Coflow Jet with Gravity Level Variation," Combust. Flame Vol 145, pp. 181-193 (2006).
- S. H. Won, J. Kim, K. J. Hong, M. S. Cha, and S. H. Chung, "Stabilization Mechanism of Lifted Flame Edge in the Near Field of Coflow Jets for Diluted Methane," Proc. Combust. Inst. Vol 30, pp. 339-347 (2005).
- J. Lee, S. H. Won, S. H. Jin, S. H. Chung, O. Fujita, and K. Ito, "Propagation Speed of Tribrachial (Triple) Flame of Propane in Laminar Jets under Normal and Microgravity Conditions," Combust. Flame Vol 134, pp. 411-420 (2003).
- J. Lee, S. H. Won, S. H. Jin, and S. H. Chung, "Lifted Flames in Laminar Jets of Propane in Coflow Air," Combust. Flame Vol 135, pp. 449-462 (2003).