

Company Publications & Patents

(A) Publications

(Note: Most can be downloaded by clicking individual publications)

Articles in Technical Journals or Conference Proceedings (2004-present)

1. **"Improving Freezing and Thawing Properties of Fly Ash Bricks,"** Proceedings of the 2005 World of Coal Ash Conference, Lexington, Kentucky, 17 pages. (Liu, H., Burkett, W. J. and Haynes, K.). (Note: This paper has won the Barton Thomas Memorial Award of the Conference, and is listed on the Fly Ash Library website www.flyash.info.)
2. **"Test of Mercury Vapor Emission from Flyash Bricks,"** Proceedings of the 2007 World of Coal Ash Conference, Cincinnati, Ohio, May 7-10, 2007, 18 pages. (Henry Liu, Shankha Banerji, William J. Burkett, and Melissa Shinn). (Note: This paper to be listed on the Fly Ash Library website www.flyash.info.)
3. **"Effect of Cenospheres on Flyash Brick Properties,"** Proceedings of the 2007 World of Coal Ash Conference, Cincinnati, Ohio, May 7-10, 2007, 18 pages. (Gregory L. Majkrzak II, James P. Watson, Mark M. Bryant, Kip Clayton.). (Note: This paper to be listed on the Fly Ash Library website www.flyash.info.)

Technical Reports

1. Liu, H. (2005), Compacting Fly Ash to Make Bricks, final Technical Report submitted to the National Science Foundation (NSF) under Grant Number DMI-419311.
2. Liu, H. (2007), **Energy to Make Bricks**, Freight Pipeline Company Internal Report 07-01.
3. Liu, H. (2007) **Greenest Brick for Enhancing LEED Points**, Freight Pipeline Company Internal Report.
4. Liu, H., Shinn, M., and Roberts, C. (2007), **Environmental Benefits of Greenest Bricks**, Freight Pipeline Company Internal Report.
5. Liu, H. and Duckworth, C. (2007), **Designing the First Brick Factory**, FPC Confidential Report for Internal use and for investors and licensees who have signed NDA.
6. Liu, H. (2007), **Cost Modeling for Flyash Brick Manufacturing**, FPC Confidential Report for Internal use and for investors and licensees who have signed NDA.
7. Liu, H. and Duckworth, C. (2007), **Cost of Flyash Brick Manufacturing at Thomas Hill Power Plant in Missouri**, FPC Confidential Report for Internal use and for investors and licensees who have signed NDA.

(B) Patents (Pending)

1. **Method to Produce Durable Non-Vitrified Fly Ash Bricks and Blocks**, U.S. Non-Provisional Patent Application assigned to FPC (Inventor: Henry Liu). (Filed with USPTO in January 19, 2006; Application No. 11/307023, patent pending).
2. **Method to Produce Durable Non-Vitrified Fly Ash Bricks and Blocks**, PCT (Patent Cooperation Treaty) filing, assigned to FPC (Inventor: Henry Liu). (Filed on February 22, 2006; priority date: June 29, 2005; International Application No. PCT/US06/06314; patent pending.)
3. **Method to Produce Durable Non-Vitrified Fly Ash Bricks and Blocks**, Patent filed with the Bureau of Intellectual Property Rights of the People's Republic of China, Patent Application No. 200680000117.3, February 9, 2007.

(C) Trademark (Pending)

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