



James Blackmon

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BIO:

Dr. Blackmon received his PhD in Engineering and Applied Science from University of California – Los Angeles. He is currently Research Professor in the UAHuntsville Propulsion Research Center where he conducts research and development on advanced solar power, RF detection and location, propulsion, and thermal management systems. Dr. Blackmon was awarded over \$2M Department of Energy contract to develop a low cost heliostat with HiTek Services (prime). He also conducts research and development on the RF Locator for Varian, Inc., which was recently extended for another year and resulted in the first UAHuntsville Master Cooperative Research Agreement. Dr. Blackmon is extensively published and has presented at conferences and symposiums across the United States. Dr. Blackmon completed a chapter for a forthcoming book on solar energy and holds over 30 patents in fields such as solar power, hybrid power, RF systems, and fluid transfer. He is a fellow of IAE and associate fellow of AIAA. He is also a member and reviewer of ASES and ASME and serves as a peer-reviewer for DOE.

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RELEVANT PUBLICATIONS:

1. Rao, Parthib R. and S.F. Entekin. "Qu tube "Solid State Heat Pipe" Characterization Tests, AIAA Student Conference, Huntsville, Alabama, July 2008. (Student Papers mentored by Dr. Blackmon)
2. Blackmon, J.B. and Entekin, S. F. "Preliminary Results of an Experimental Investigation of the Qu Heat Pipe. Submitted to *AIAA Journal of Propulsion and Power*. Being re-submitted to a more appropriate journal on the recommendation of the reviewers.
3. Blackmon, J.B., S.F. Entekin, and S. Kusek. "Advanced Solid State Radiator," NASA Multiple Reconfigurable High Energy (MHRE) System Interim Review, July 19, 2005.
4. Blackmon, J.B., Caraway, M.J., and Stone, K.W. "Digital Image Radiometer Applications for Solar Concentrator Optical Evaluation", poster session paper ,International Solar Energy Society 1999 Solar World Energy Congress, Jerusalem, Israel, July, 1999.
5. J.B. Blackmon. "Boeing Solar Power Activities", *SolaReflectioNews* Solar Energy Industries Association (SEIA) Solar Thermal Power Industry Newsletter, Spring, 1998.
6. J.B. Blackmon. "Overview of the U.S./Israel Science and Technology Commission Solar Central Receiver Program," Presentation, American-Israel Chamber of Commerce "Business Opportunities with Israel" Seminar. July 22, 1997. Washington, D.C.
7. J. B. Blackmon. "Jack Ritterskamp-Engineer, Pioneer, Inventor, and Friend", McDonnell Douglas Flight Times, Volume 1, Number 11, Oct-Nov., 1996
8. J. B. Blackmon. "Missile Pioneer Visits Huntsville", McDonnell Douglas System Integrator, Volume 13, Number 5, September-October, 1996.
9. J. B. Blackmon. "Huntsville Evaluates Promising New Rocket Fuel", McDonnell Douglas Aero Vision, Volume 2 Number 8, July 1994
10. J. B. Blackmon. "A Liquid Droplet Space Radiator". McDonnell Douglas Technical Idea Exchange (TIE). Vol. 17, No. 11. November 1986.
11. J. B. Blackmon, "Development and Performance of a Digital Image Radiometer for Heliostat Evaluation at Solar One" *ASME Journal of Solar Energy Engineering*, November 1985.
12. J. B. Blackmon, "Experimental Verifications of Propellant Orientation in Zero Gravity with Electrostatic Fields," *Advances in Astronautics*, Vol. 14, 1963.