

Jian Sheng

Texas A&M University-Corpus Christi
Science & Engineering, Engineering
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Education

PhD, The Johns Hopkins University, 2006.

MS, The Johns Hopkins University, 2001.

MS, Kansas State University, 1998.

BS, Tong-Ji University, 1995.

Professional Memberships

American Chemical Society
American Geophysical Union
American Society of Limnology and Oceanography
American Society of Mechanical Engineering
International Society of Optical Engineering
American Physical Society

TEACHING

Teaching Experience

ENGR 3315, FLUID MECHANICS
ENTC 3406, FLUID MECHANICS-FLUID POWER
ENTC 4320, HEAT TRANSFER
MEEN 3345, HEAT TRANSFER

SCHOLARLY AND CREATIVE ACTIVITIES

Publications

Refereed

Journal Articles

Molaei, M., Sheng, J. (2016). Succeed escape: Flow shear promotes tumbling of *Escherichia coli*. *Nature: Scientific Report*, 6, 35290.

Bocanegra Evans, H., Gorumlu, S., Aksak, B., Castillo, L., Sheng, J. (2016). Holographic measurement of wall shear stress and 3D flow over surfaces textured by microfibers. *Nature: Scientific Report*, 6, 28753.

Presentations

Jalali-Mousavi, M. (Author & Presenter), Sheng, J. (Author), "Experimental Fluidic Investigation of Degradation of Pico-liter Oil Droplets by Physical and Biological Processes," 69th Annual Meeting

of the APS Division of Fluid Dynamics, American Physical Society, Portland, OR. (November 22, 2016).

Sheng, J. (Author & Presenter), Jalali-Mousavi, M. (Author), Brock, L. (Author), "Quantifying Oil Degradation Processes by Flow, Microbes and Dispersant using Digital Holographic Interferometry and Micro-bioassay," 69th Annual Meeting of the APS Division of Fluid Dynamics, American Physical Society, Portland, OR. (November 22, 2016).

Sheng, J., "Biophysical Interactions of Plankton with Environments: From Individual Locomotion to Population Dynamics," SIAM Conference on Mathematics of Planet Earth, SIAM, Philadelphia. (September 30, 2016).

Sheng, J. (Author), Jalali-Mousavi, M. (Author & Presenter), "Interactions of passive and active marine particles at oil water interfaces," 2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Gulf of Mexico Research Initiative, Tampa. (February 16, 2016).

Jalali-Mousavi, M. (Author & Presenter), Stebe, K. (Author), Sheng, J. (Author), "Monitoring bacterial attachment to array of microscale oil droplet," 2016 Gulf of Mexico Oil Spill & Ecosystem Science Conference, Gulf of Mexico Research Initiative, Tampa. (February 16, 2016).

Contracts, Grants and Sponsored Research

Sponsored Research

Sheng, Jian (Principal), "Consortium: DROPPS II – Dispersion Research on Oil: Physics and Plankton Studies," Sponsored by Gulf of Mexico Research Initiative, Other, \$864,000.00. (January 1, 2015 - December 31, 2017).