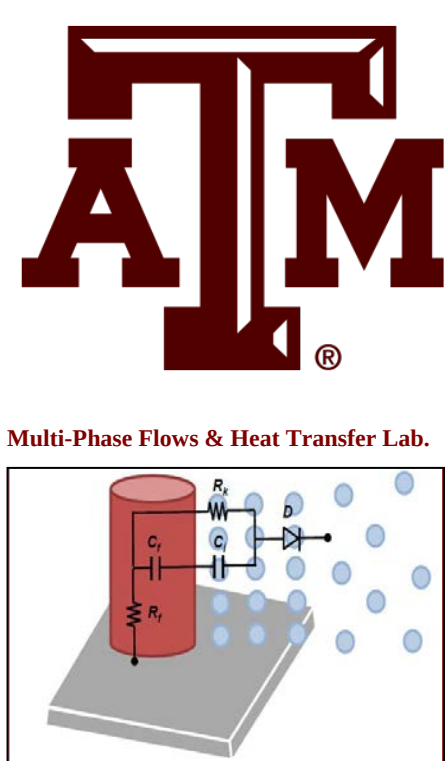




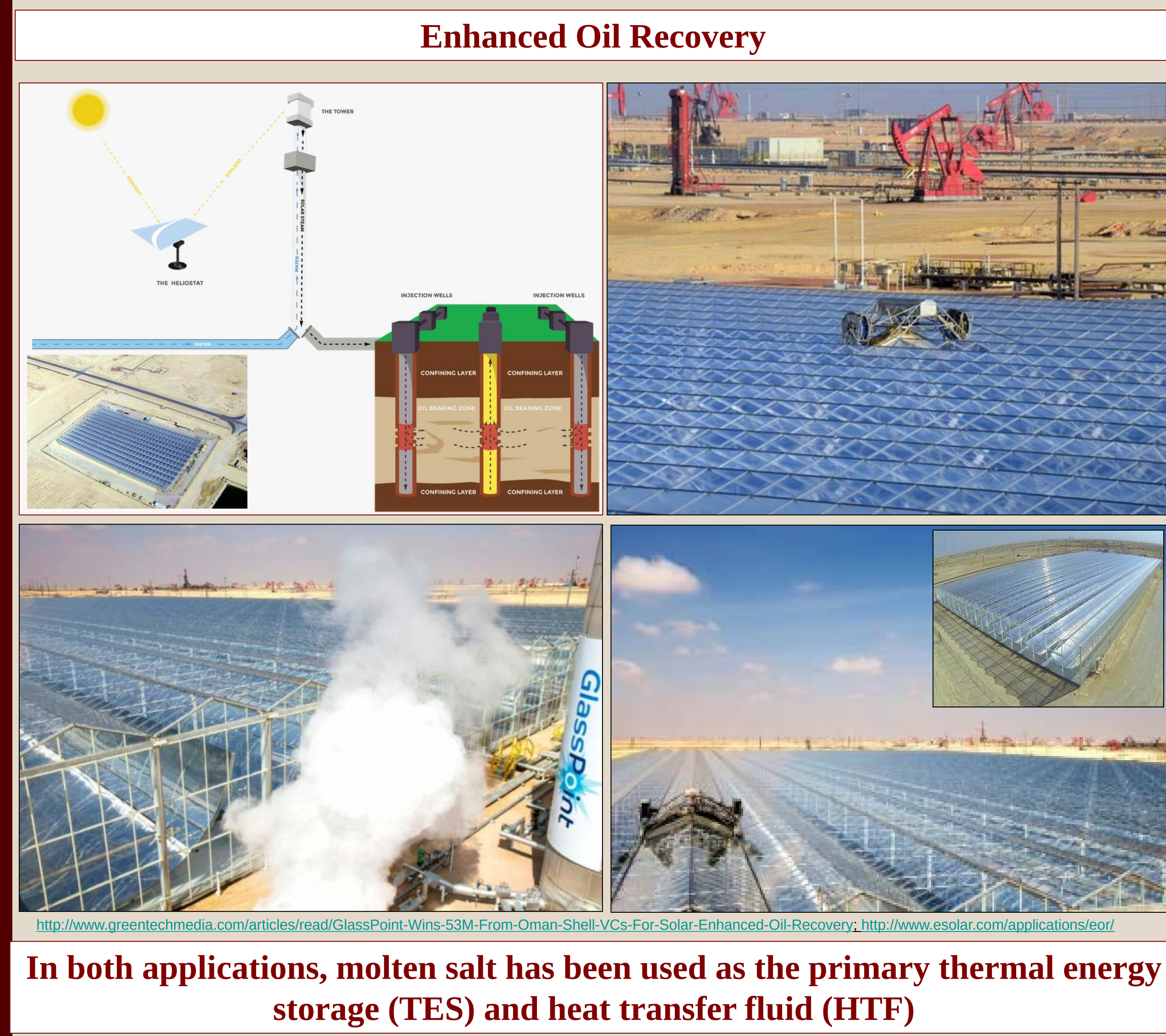
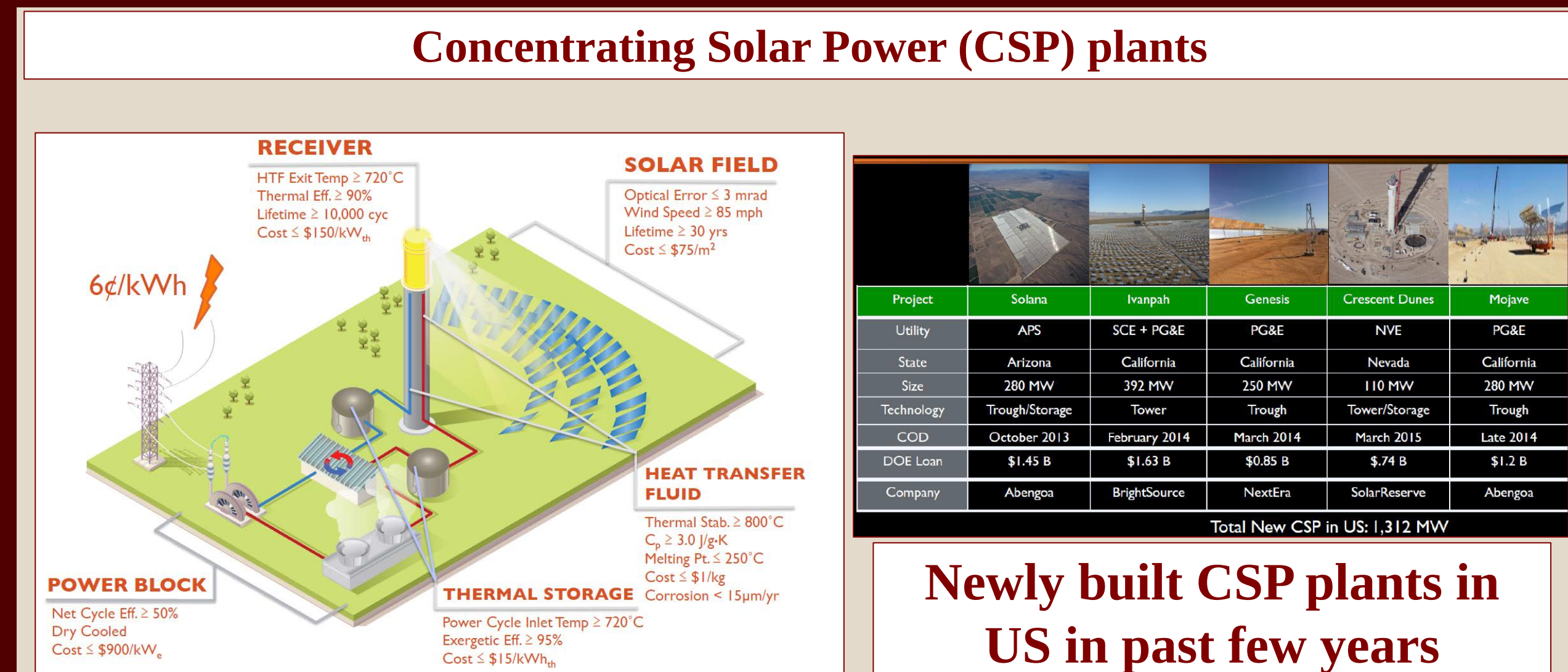
MOLTEN SALT NANOFLUID FOR THERMAL ENERGY STORAGE AND HEAT TRANSFER FLUID

B.Ma¹, N. Niedbalski¹, N. Kumar¹, Ms. R. Roy¹, H. Tamakuwala¹, & Debjyoti Banerjee, Ph.D.^{1,2,3}

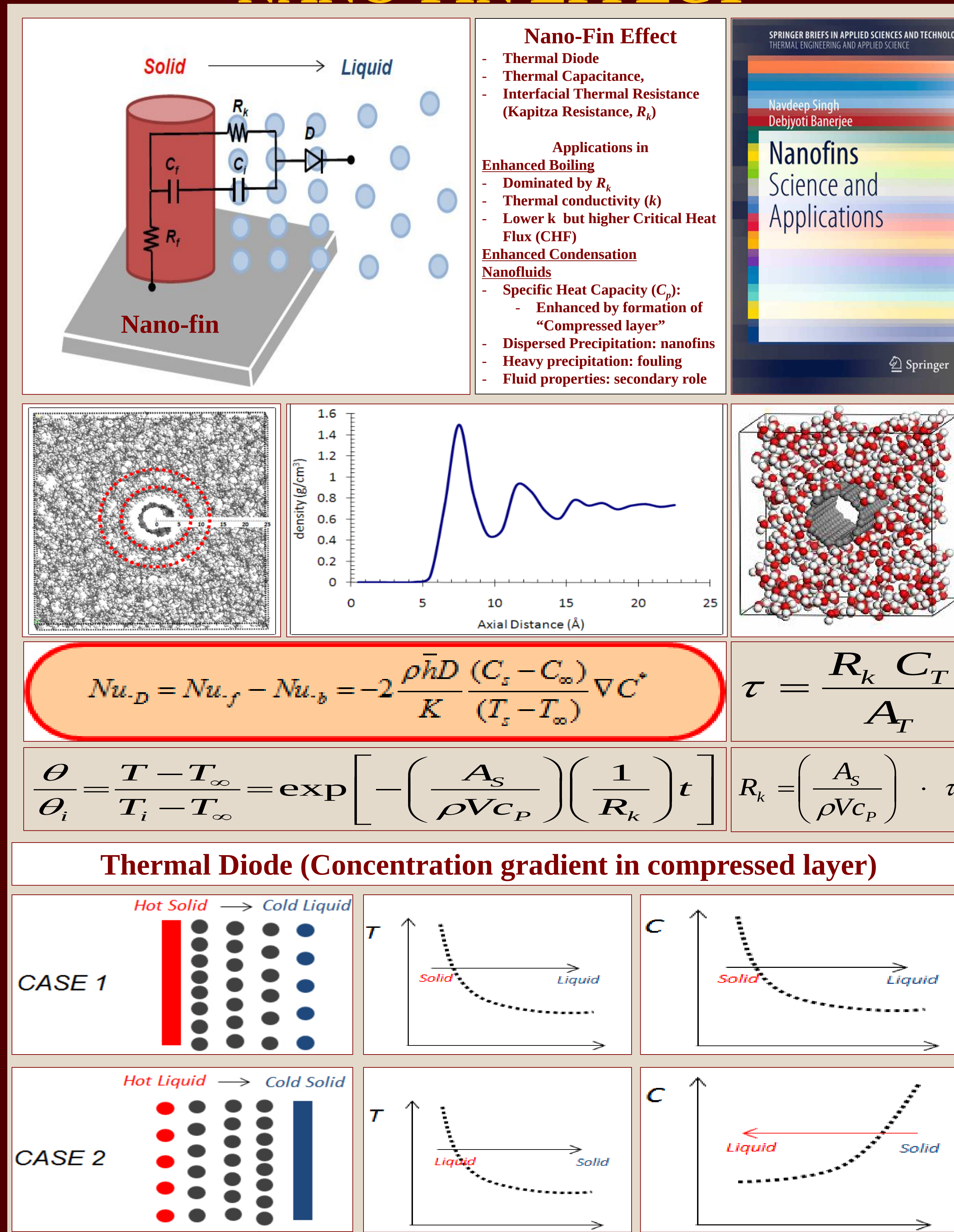
¹Department of Mechanical Engineering, ²Department of Petroleum Engineering, ³Mary Kay O'Connor Process Safety Center
Texas A&M University, College Station, TX 77843-3123. Email: dbanerjee@tamu.edu Web: <http://db.tamu.edu>



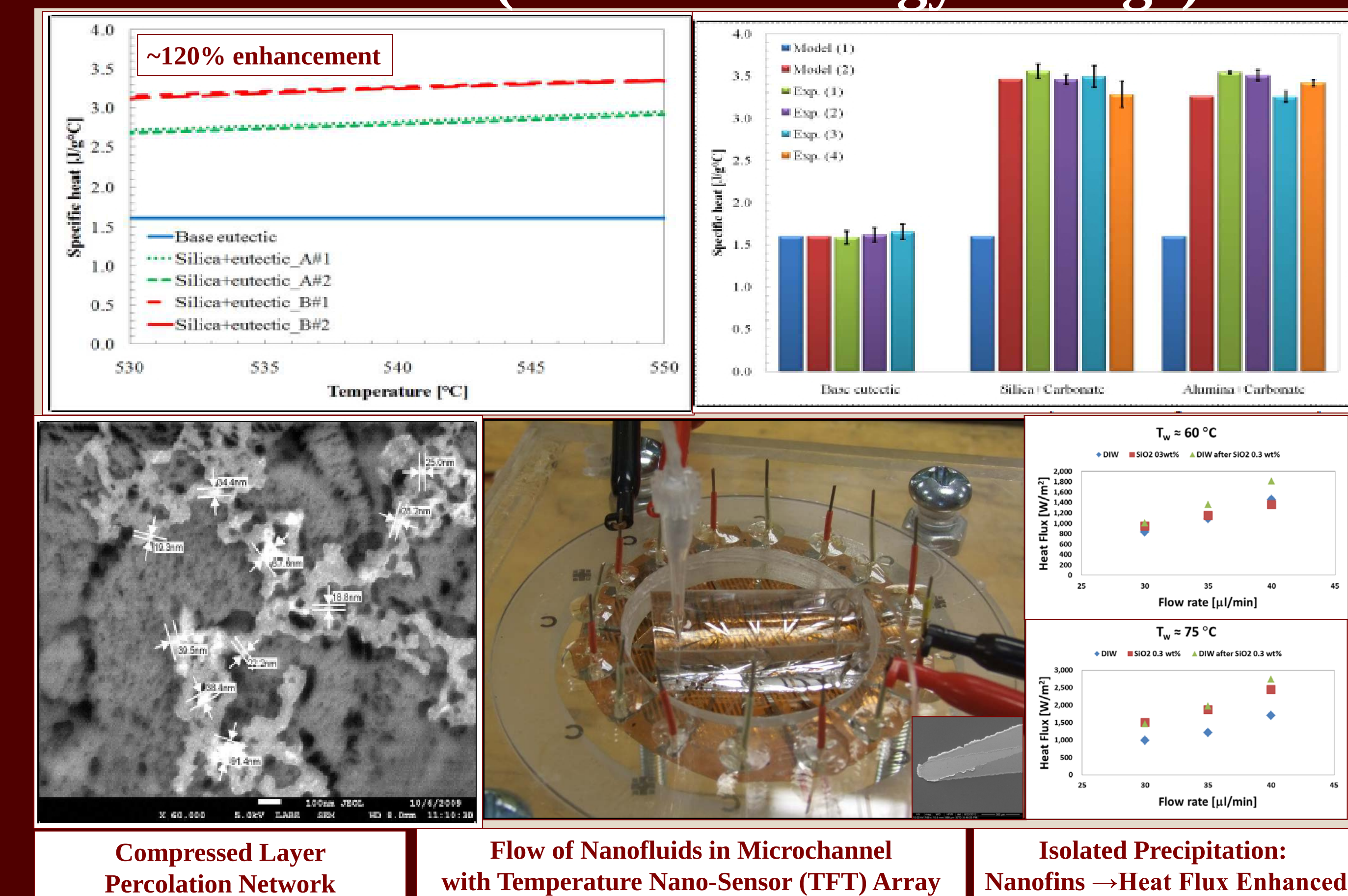
Molten salt applications in Energy Sector



NANO-FIN EFFECT



Nanofluids (Thermal Energy Storage)



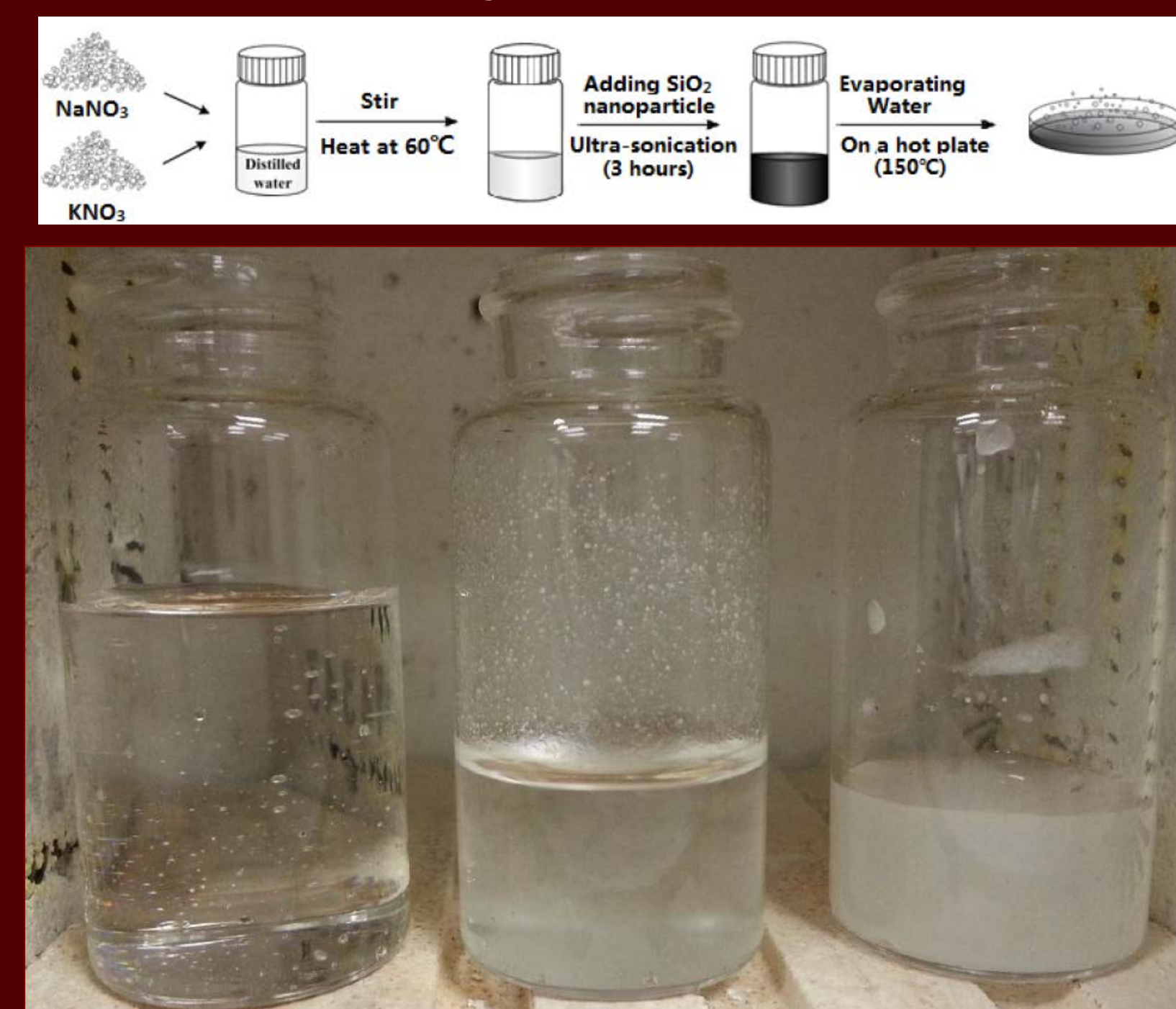
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Banerjee Research Group
Current Ph.D. students: Nicholas Niedbalski, Binjian Ma, Navin Kumar
Current M.S. students: Ms. Ronita Roy, Mr. Harsh Tamakuwala
Former Ph.D. Students (11): Dr. H. Yang, Dr. P. Roy, Dr. Jiwon Yu, Dr. Byeonnam Jo, Dr. Seokwon Kang, Dr. Seunghwan Jung, Dr. Saeil Jeon, Dr. Donghyun Shin, Dr. Navdeep Singh, Dr. Vijay Sathiyamurthy, Dr. Hee-Seok Ahn
Former M.S. students (17): Ms. Y. Hu, Mr. Nicholas Niedbalski, Mr. Scott Hansen, Mr. Stephen Glenn, Mr. Rohit Gargate, Mr. Sayak Datta, Mr. Ranil Banneyake, Mr. Stephen Gauntt, Mr. Sharan Ram Sriraman, Dr. David Huitink, Dr. I.C. Nelson, Dr. V. Sathiyamurthy, Dr. V. Rupakula, Dr. S. Shenoy, Dr. Nipun Sinha
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Academic Collaborators:
Villanova University: A. Ortega PhD
U. New Haven: S. Sinha PhD
U. Texas (Austin): S. Banerjee PhD
U. Texas (Dallas): R. Baughman PhD
U. Texas (Arlington): D. Shin PhD
U. Maryland (UMD): J. Kim PhD
TAMU – Qatar: R. Sadr PhD
Collaborators in Federal Labs.:
DOE Solar Energy Program (NREL, Golden, CO):
Brian Hunter, Allie Aman, Ryan Shiner, Brad Ring, Greg Glatzmaier PhD, Craig Turchi PhD
US Navy (SPAWAR, San Diego, CA):
R. Nguyen, C. Huynh, R. Lu PhD, A. Ramirez PhD
AFRL (WPAFB, Dayton, OH):
RZ: R. Ponnappan PhD (AOARD), K. Yerkes PhD, T. Michalak, A. Flemming, Soumya Patnaik PhD, Cindy Obringer, Larry Byrd PhD
RX: A. Roy, PhD, S. Ganguly, PhD (RX), L. Gschwender PhD, Ed Snyder PhD, R. Naik PhD, J. Slocik, L. Brott PhD
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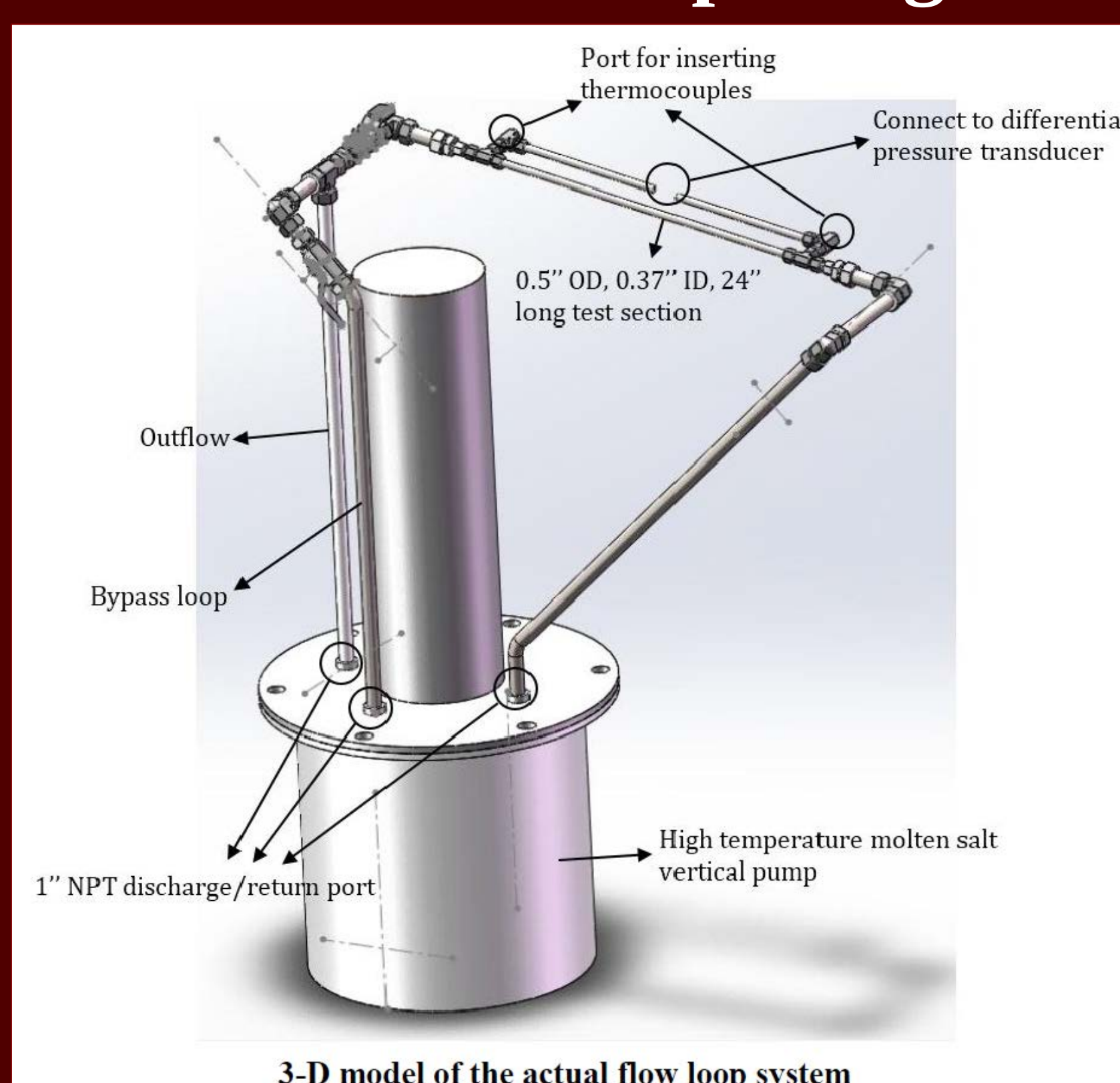
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• Nano-MEMS Research (NSF SBIR Phase I)
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Synthesis



Comparison of i) pure molten salt; ii) molten salt-SiO₂ nanofluid; iii) molten salt-Al₂O₃ nanofluid

Test flow loop design



Heat transfer evaluation using CFD

