

Best Applied Paper Award Recipients

Year Awarded	Year Award Presented	Recipients (& all authors)	Best Paper Title	Periodical and Date Published
		(STS member authors are in bold and <u>underlined</u> .)		
2014	2015	Francisco M. Vargas	"Simple Method To Calculate the Temperature Dependence of the Gibbs Energy and Chemical Equilibrium Constants"	Journal Chemical Education (ACS), 2014, 91 (3), pp. 396-401
2013	2014	Natnael Behabtu, Colin C. Young, Dmitri E. Tsentalovich, Olga Kleinerman, Xuan Wang, Anson W. K. Ma, E. Amram Bengio, Ron F. ter Waarbeek, Jorrit J. de Jong, Ron E. Hoogerwerf, Steven B. Fairchild, John B. Ferguson, Benji Maruyama, Junichiro Kono, Yeshayahu Talmon, Yachin Cohen, Marcin J. Otto, and Matteo Pasquali.	"Strong, Light, Multifunctional Fibers of Carbon Nanotubes with Ultrahigh Conductivity"	SCIENCE , VOL 339, 11 January 2013
2012	2013	Madhuri Thakur, Steven L. Sinsabaugh, Mark J. Isaacson, Michael S. Wong, and <u>Sibani Lisa Biswal</u>	"Inexpensive Method for Producing Macroporous Silicon Particulates (MPSPs) with Pyrolyzed Polyacrylonitrile for Lithium Ion Batteries"	Nature/Scientific Reports , 2 : 795
2011	2012	Anjushri S. Kurup, Francisco M. Vargas, Jianxin Wang, Jill Buckley,Jefferson L. Creek, Hariprasad, J. Subramani, & <u>Walter G. Chapman</u>	"Development and Application of an Asphaltene Deposition Tool (ADEPT) for Well Bores"	ACS Energy Fuels 2011 , 25, 4506–4516
2010	2011	Hitesh G. Bagaria, Gautam C. Kini, and <u>Michael S. Wong</u>	"Electrolyte Solutions Improve Nanoparticle Transfer from Oil to Water"	J. Phys. Chem. C , Vol. 2010, 114, pp. 19901–19907
2009	2010	Virginia A. Davis A. Nicholas G. Parra-Vasquez, Micah J. Green, Pradeep K. Rai, Natnael Behabtu, Valentin Prieto, Richard D. Booker, Judith Schmidt, Ellina Kesselman, Wei Zhou, Hua Fan, W. Wade Adams, Robert H. Hauge, John E. Fischer, Yachin Cohen, Yeshayahu Talmon, Richard E. Smalley (Nobel Laureate), and <u>Matteo Pasquali</u> (Rice Univ.)	"True solutions of single-walled carbon nanotubes for assembly into macroscopic materials"	NATURE NANOTECHNOLOGY , Vol. 4, December 2009, pp 830 - 834 [www.nature.com/naturenanotechnology]
2008	2009	<u>Cary L. Pint</u> , Sean T. Pheasant, <u>Matteo Pasquali</u> , Kent E. Coulter, <u>Howard K. Schmidt</u> , and Robert H. Hauge (Rice Univ.)	"Synthesis of High Aspect-Ratio Carbon Nanotube 'Flying Carpets' from Nanostructured Flake Substrates"	Nano Lett. , 2008, 8 (7), 1879-1883.
2007	2008	Martyn V. Twigg and <u>James T. Richardson</u> (Univ. of Houston)	"Fundamentals and Application of Structured Ceramic Foam Catalyst"	Industrial & Engineering Chemistry Research , 2007, 46, 4166-4177
2006	2007	James Lattner and <u>Michael Harold</u> (Univ. of Houston)	"Autothermal Reforming of Methanol: Experiments and Modeling"	Catalysis Today , 120, p78-89, 2006
2005	2006	<u>Michael O. Nutt</u> , Joseph B. Hughes, and <u>Michael S. Wong</u> (Rice Univ.)	"Designing Pd-on-Au Bimetallic Nanoparticle Catalysts for Trichloroethene Hydrodechlorination"	Environmental Science and Technology , vol. 39, pp 1346-1353.
2004	2005	K. Y. Song, M. Yarrison, & <u>W. Chapman</u> (Rice Univ.)	"Experimental low temperature water content in gaseous methane, liquid ethane and liquid propane in equilibrium with hydrate at cryogenic conditions"	Fluid Phase Equilibria 224 (2004) 271-277.
2003	2004	Yong Ok Jeong & <u>Dan Luss</u> (Univ. of Houston)	"Pollutant Destruction in a Reverse Flow Chromatographic Reactor"	Chemical. Engineering Science 58 (2003), pages 095-1102
2002	2003	<u>Dan Luss</u> , Rohit Garg, and Abdul Garayhi (Univ. of Houston)	"Influence of Product Abosrption on the Operation of a Reverse Flow Reactor"	@ NA
2001	2002	<u>Dr. Ron Darby</u> , P.E., Ph.D. (Texas A&M Univ)	"Take the Mystery Out of Non-Newtonian Fluids"	Chemical Engineering. March, 2001
2000	2001	No Award Given	No Award Given	No Award Given
1999	2000	F. Craig Moats, Timothy E. McMinn, and <u>James T. Richardson</u> (Univ. of Houston)	"Radial Reactor for Trichloroethylene Steam Reforming"	AIChE Journal , Vol. 45, No. 11, Nov 1999
1998	1999	<u>D. Luss</u> and J. Kinast (Univ. of Houston)	"Continuously stirred decanting reactor: Operability and stability considerations"	AIChE Journal , 44, (1998), 372-387
1997	1998	<u>Dr. Jerald Linsley</u> , P.E., Ph.D. (Industry)	"New, simpler equations calculate pressure-compensate temperatures"	Oil & Gas Journal , 24 - March, 1997
1996	1997	<u>Dragomir B. Bukur</u> (Principal Author), James G. Daly, & Snehal A. Patel	@ NA	@ NA
1995	1996			
1994	1995			
1993	1994	No Award Given	No Award Given	No Award Given
1992	1993			
1991	1992	<u>Dr. Ron Darby</u> , P.E., Ph.D. (Texas A&M Univ)		
1990	1991	<u>Evan G. Bauman</u> & Arvind Varma	"Parametric Sensitivity and Runaway in Catalytic Reactors: Experiments and Theory U	Chemical. Engineering Science Vol 45, No 8, pp 2133-2139, 1990
1989	1990	T. L. Evans & <u>R. E. White</u>	"Estimation of Electrode Kinetic Parameters of the Lithium/Thionyl Chloride Cell Usiing	Journal of the Electrochemical Society , Vol. 136, No. 10, pp. 2798-2805, 1989

1988	1989	<u>J. T. Richardson</u> , <u>S.A.Paripatyadar</u> , & J. C. Shen (Univ. of Houston)	"Dynamics of a Sodium Heat Pipe Reforming Reactor"	<i>AICHE Journal</i> , Vol. 34, No. 5, pp. 743-752, May 1988
1987	1988	<u>P. A. Nelson</u> (Industry)	@NA	
1986	1987	No Award Given		
1985	1986	<u>S. E. Gallum</u>	"The Measurement of Aerated Slurry Levels and Densities in High Pressure, Stirred, P	<i>ISA Transactions</i> , 24 (4) , 55 (1985)
1984	1985	<u>R. Darby</u> , & H. F. D. Ciang (Texas A&M Univ)	@NA	
1983	1984	<u>James R. Fair</u> & A. Klip (Univ. of Texas)	@NA	
1982	1983			
1981	1982	R. Semiat & <u>A. E. Dukler</u> (Univ. of Houston)	@NA	

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1965	1966	??? David E. Rosenberg & David Hellums	D. E. Rosenberg and J. D. Hellums, Flow development and heat transfer in variable-vis	
1964	1965	M. A. Van Winkle & James Helpinstill (Univ. of Texas)		
1963	1964			
1962	1963	Ray N. Finch and M. Van Winkle (Univ. of Texas)	Finch, R. N. and Van V	"~Prediction of Binary and Ternary Vapor Liquid Equilibrium Data Using Modified Van Laar Equations", A.I.Ch.E.Journal 8: 455-460 (1962)
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