

South Texas Section - AIChE Best Applied Paper Award

Year Awarded	Year Award Presented	Recipients (& all authors)	Best Paper Title	Periodical and Date Published
		(STS member authors are in bold and underlined.)		
2015	2016	Wael A. Fouad, Matt Yarrison, Kyoo Y. Song, Kenneth R. Cox , and Walter G. Chapman	"High Pressure Measurements and Molecular Modeling of the Water Content of Acid Gas Containing Mixtures"	<i>AIChE Journal</i> , September 2015, Vol. 61, No. 9, pp. 3038 - 3052
2014	2015	Francisco M. Vargas	"Simple Method To Calculate the Temperature Dependence of the Gibbs Energy and Chemical Equilibrium Constants"	<i>Journal Chemical Education</i> (ACS), 2014, 91 (3), pp. 396-401
2013	2014	Natnael Behabtu, Colin C. Young, Dmitri E. Tsentlovich, 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, Marcia J. Otto, and Matteo Pasquali	"Strong, Light, Multifunctional Fibers of Carbon Nanotubes with Ultrahigh Conductivity"	<i>SCIENCE</i> , VOL 339, 11 January 2013
2012	2013	Madhuri Thakur, Steven L. Sinsabaugh, Mark J. Isaacson, Michael S. Wong, and Sibani Lisa Biswal	"Inexpensive Method for Producing Macroporous Silicon Particulates (MSPS) with Pyrolyzed Polyacrylonitrile for Lithium Ion Batteries"	<i>Nature/Scientific Reports</i> , 2: 795
2011	2012	Anjushri S. Kurup, Francisco M. Vargas, Jianxin Wang, Jill Buckley, Jefferson L. Creek, Hariprasad, J. Subramani, & Walter G. Chapman	"Development and Application of an Asphaltene Deposition Tool (ADEPT) for Well Bores"	<i>ACS Energy Fuels</i> 2011, 25, 4506-4516
2010	2011	Hitesh G. Bagaria, Gautam C. Kini, and Michael S. Wong	"Electrolyte Solutions Improve Nanoparticle Transfer from Oil to Water"	<i>J. Phys. Chem. C</i> , 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 Preto, 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 Matteo Pasquali (Rice Univ.)	"True solutions of single-walled carbon nanotubes for assembly into macroscopic materials"	<i>NATURE NANOTECHNOLOGY</i> , Vol. 4, December 2009, pp 830 - 834 www.nature.com/naturenanotechnology
2008	2009	Cary L. Pint , Sean T. Pheasant, Matteo Pasquali , Kent E. Coulter, Howard K. Schmidt , and Robert H. Hauge (Rice Univ.)	"Synthesis of High Aspect-Ratio Carbon Nanotube 'Flying Carpets' from Nanostructured Flake Substrates"	<i>Nano Lett.</i> , 2008, 8 (7), 1879-1883.
2007	2008	Martyn V. Twigg and James T. Richardson (Univ. of Houston)	"Fundamentals and Application of Structured Ceramic Foam Catalyst"	<i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 4166-4177
2006	2007	James Lattner and Michael Harold (Univ. of Houston)	"Autothermal Reforming of Methanol: Experiments and Modeling"	<i>Catalysis Today</i> , 120, p78-89, 2006
2005	2006	Michael O. Nutt , Joseph B. Hughes, and Michael S. Wong (Rice Univ.)	"Designing Pd-on-Au Bimetallic Nanoparticle Catalysts for Trichloroethene Hydrodechlorination"	<i>Environmental Science and Technology</i> , vol. 39, pp 1346-1353.
2004	2005	K. Y. Song, M. Yarrison, & W. Chapman (Rice Univ.)	"Experimental low temperature water content in gaseous methane, liquid ethane and liquid propane in equilibrium with hydrates at cryogenic conditions"	<i>Fluid Phase Equilibria</i> 224 (2004) 271-277.
2003	2004	Yong Ok Jeong & Dan Luss (Univ. of Houston)	"Pollutant Destruction in a Reverse Flow Chromatographic Reactor"	<i>Chemical Engineering Science</i> 58 (2003), pages 095-1102
2002	2003	Dan Luss , Rohit Garg, and Abdul Garayhi (Univ. of Houston)	"Influence of Product Absorption on the Operation of a Reverse Flow Reactor"	<i>@NA</i>
2001	2002	Dr. Ron Darby , P.E., Ph.D. (Texas A&M Univ)	"Take the Mystery Out of Non-Newtonian Fluids"	<i>Chemical Engineering</i> , March, 2001
2000	2001	No Award Given	No Award Given	No Award Given
1999	2000	F. Craig Moats, Timothy E. McMinn, and James T. Richardson (Univ. of Houston)	"Radial Reactor for Trichloroethylene Steam Reforming"	<i>AIChE Journal</i> , Vol. 45, No. 11, Nov 1999
1998	1999	D. Luss and J. Kinast (Univ. of Houston)	"Continuously stirred decanting reactor: Operability and stability considerations"	<i>AIChE Journal</i> , 44, (1998), 372-387
1997	1998	Dr. Jerald Linsley , P.E., Ph.D. (Industry)	"New, simpler equations calculate pressure-compensate temperatures"	<i>Oil & Gas Journal</i> , 24 - March, 1997
1996	1997	Dragomir B. Bukur (Principal Author), James G. Daly, & Snehal A. Patel	@NA	@NA
1995	1996	No Award Given	No Award Given	No Award Given
1994	1995	No Award Given	No Award Given	No Award Given
1993	1994	No Award Given	No Award Given	No Award Given
1992	1993	Dr. Dan Luss, PhD (UH)	No Award Given	No Award Given
1991	1992	Dr. Ron Darby , P.E., Ph.D. (Texas A&M Univ)	No Award Given	No Award Given
1990	1991	Evan G. Bauman & Arvind Varma	"Parametric Sensitivity and Runaway in Catalytic Reactors: Experiments and Theory U"	<i>Chemical Engineering Science</i> Vol 45, No 8, pp 2133-2139, 1990
1989	1990	T. L. Evans & R. E. White	"Estimation of Electrode Kinetic Parameters of the Lithium/Thionyl Chloride Cell Using Dynamics of a Sodium Heat Pipe Reforming Reactor"	<i>Journal of the Electrochemical Society</i> , Vol. 136, No. 10, pp 2798-2805, 1989
1988	1989	J. T. Richardson, S.A. Paripatyadar , & J. C. Shen (Univ. of Houston)	@NA	<i>AIChE Journal</i> , Vol. 34, No. 5, pp. 743-752, May 1988
1987	1988	P. A. Nelson (Industry)	@NA	@NA
1986	1987	No Award Given	No Award Given	No Award Given
1985	1986	S. E. Gallum	"The Measurement of Aerated Slurry Levels and Densities in High Pressure, Stirred, Pt"	<i>ISA Transactions</i> , 24 (4), 55 (1985)
1984	1985	R. Darby , & H. F. D. Ciang (Texas A&M Univ)	@NA	@NA
1983	1984	James R. Fair & A. Klip (Univ. of Texas)	@NA	@NA
1982	1983	R. Semiat & A. E. Dukler (Univ. of Houston)	@NA	@NA
1981	1982	R. Semiat & A. E. Dukler (Univ. of Houston)	@NA	@NA
1980	1981	No Award Given	No Award Given	No Award Given
1979	1980	No Award Given	No Award Given	No Award Given
1978	1979	No Award Given	No Award Given	No Award Given
1977	1978	Dr. Ron Darby , P.E., Ph.D. (Texas A&M Univ)	No Award Given	No Award Given
1976	1977	No Award Given	No Award Given	No Award Given
1975	1976	No Award Given	No Award Given	No Award Given
1974	1975	No Award Given	No Award Given	No Award Given
1973	1974	No Award Given	No Award Given	No Award Given
1972	1973	No Award Given	No Award Given	No Award Given
1971	1972	No Award Given	No Award Given	No Award Given
1970	1971	Dr. Dan Luss, PhD (UH)	No Award Given	No Award Given
1969	1970	No Award Given	No Award Given	No Award Given
1968	1969	No Award Given	No Award Given	No Award Given
1967	1968	No Award Given	No Award Given	No Award Given
1966	1967	No Award Given	No Award Given	No Award Given
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 Helinstill (Univ. of Texas)	No Award Given	No Award Given
1963	1964	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)
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)
1961	1962	No Award Given	No Award Given	No Award Given
1960	1961	No Award Given	No Award Given	No Award Given
1959	1960	No Award Given	No Award Given	No Award Given
1958	1959	No Award Given	No Award Given	No Award Given