

**Richard and Patricia Spriggs Phase Equilibria Award  
History of Winners**

| Date Awarded | Name                                                                                                                                                          | Awarded For:                                                                                                                                                                                                                            |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2016         | Andrea Quaini, Christine Guéneau, Stéphane Gossé, Bo Sundman, Dario Manara, Anna L. Smith, David Bottomley, Patrick Lajarge, Markus Ernstberger, Fiqiri Hodaj | <i>"High temperature investigation of the solid/liquid transition in the PuO<sub>2</sub>–UO<sub>2</sub>–ZrO<sub>2</sub> system"</i> , Published in Journal of Nuclear Materials, 467 (2015) 660-676                                     |
| 2015         | Nan Zhang, Hiroko Yokota, A. Michael Glazer, Zihe Ren, D.A. Keen, Dean S. Keeble, Pamela A. Thomas, Zuo-Guang Ye                                              | <i>"The missing boundary in the phase diagram of PbZr<sub>1-x</sub>Ti<sub>x</sub>O<sub>3</sub>"</i> , Published in NATURE COMMUNICATIONS 5, October 24, 2014, Article number 5231                                                       |
| 2014         | Mao Chen and Baojun Zhao                                                                                                                                      | <i>"Phase Equilibrium Studies of "Cu<sub>2</sub>O"-SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> System in Equilibrium with Metallic Copper"</i> , Journal of the American Ceramic Society, vol. 96 [11] pp 3631-3636 (2013)              |
| 2013         | Kiyoshi Kobayashi and Yoshio Sakka                                                                                                                            | <i>"Phase Relationships in the Quasi-Ternary LaO<sub>1.5</sub>-SiO<sub>2</sub>-MgO System"</i> , Science and Technology of Advanced Materials, vol. 13 [4] (2012)                                                                       |
| 2012         | Jinichiro Nakano, Kyei-Sing Kwong, James Bennett, Thomas Lam, Laura Fernandez, Piyamanee Komolwit and Seetharaman Sridhar                                     | <i>"Phase Equilibria in Synthetic Coal - Petcoke Slags (Al<sub>2</sub>O<sub>3</sub>–CaO–FeO–SiO<sub>2</sub>–V<sub>2</sub>O<sub>3</sub>) under Simulated Gasification Conditions"</i> , Energy & Fuels, vol. 25 [7], pp 3298-3306 (2011) |
| 2011         | Dae-Hee Woo, Hae-Geon Lee                                                                                                                                     | <i>"Phase Equilibria of the MnO–SiO<sub>2</sub>–Al<sub>2</sub>O<sub>3</sub>–MnS System"</i> , Journal of the American Ceramic Society, 93 [7] 2098–2106 (2010)                                                                          |
| 2010         | Genki Kobayashi, Shin-ichi Nishimura, Min-Sik Park, Ryoji Kanno, Masatomo Yashima, Takashi Ida, and Atsuo Yamada                                              | <i>"Isolation of Solid Solution Phases in Size-Controlled Li<sub>x</sub>FePO<sub>4</sub> at Room Temperature"</i> , Advanced Functional Materials, 2009, 19, 395–403.                                                                   |
| 2009         | Elena R. Andrievskaya                                                                                                                                         | <i>"Phase equilibria in the refractory oxide systems of zirconia, hafnia and yttria with rare-earth oxides"</i> , Journal of the European Ceramic Society 28 (2008) 2363-2388.                                                          |
| 2008         | Soonil Lee, Clive A. Randall, and Zi-Kui Liu                                                                                                                  | <i>"Modified Phase Diagram for the Barium Oxide-Titanium Dioxide System for the Ferroelectric Barium Titanate"</i> , Journal of the American Ceramic Society, 90 [8] 2589-2594 (2007).                                                  |
| 2007         | Winnie Wong-Ng, Zhi Yang, Lawrence Cook, Julia Frank, Mario Luong                                                                                             | <i>"Subsolidus Phase Relationships of the BaO-R<sub>2</sub>O<sub>3</sub>-CuO<sub>2</sub> (R = Eu, Dy and Ho) Systems Under Carbonate-free Conditions at T = 810 °C and pO<sub>2</sub> = 100 Pa"</i> , Physica C 439 (2006) 93-100.      |

| Date Awarded | Name                                                                            | Awarded For:                                                                                                                                                                                    |
|--------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2007         | A. Nicholas Grundy, Ming Chen, Bengt Hallstedt, Ludwig J. Gauckler              | "Assessment of the La-Mn-O System", Journal of Phase Equilibria and Diffusion-26 (2) 131-151 (2005).                                                                                            |
| 2006         | Terrell A. Vanderah, Virginia Lea Miller, Igor Levin, S.M. Bell, and Taki Negas | "Phase Relations, Crystal Chemistry, and Dielectric Properties in Sections of the La <sub>2</sub> O <sub>3</sub> -CaO-MgO-TiO <sub>2</sub> System", J. Solid State Chem. 177, 2023-2038 (2004). |
| 2005         | Masao Morishita and Alexandra Navrotsky                                         | Calorimetric Study of Nickel Molybdate: Heat Capacity, Enthalpy, and Gibbs Energy of Formation, J. Am. Ceram. Soc., 86[11]1927-32(2003).                                                        |
| 2004         | Theodore M. Besmann and Karl E. Spear                                           | Thermochemical Modeling of Oxide Glasses, J. Am. Ceram. Soc., 85 [12] 2887-94 - (2002)                                                                                                          |
| 2003         | Robert Roth                                                                     | Lifetime Achievement                                                                                                                                                                            |