



Updates on friends and colleagues in the materials community

Two TMS Fellows Receive Acta Materialia, Inc. Awards



Y. Austin Chang



Carolyn Hansson

Each year, the Board of Governors of Acta Materialia, Inc. recognizes individuals who have contributed to materials science through research and to the understanding of materials technology and society through their careers, and/or made a major impact on society through materials technology. This year, two TMS Fellows will be honored by Acta Materialia. Y. Austin Chang of the University of Wisconsin, Madison, was named the 2009 Acta Materialia, Inc. Gold Medal winner, and Carolyn Hansson of the University of Waterloo, Canada, was named the 2009 Acta Materialia, Inc. Materials & Society Award winner.

The Gold Medal award recognizes an individual's ability and leadership in materials research. The Materials & Society Award, formerly the Hollomon Award, recognizes an individual who has contributed to understanding the relations between materials technology and society, and/or has made contributions to materials technology that have had a major impact on society. Award recipients are chosen by five judges selected by the Board of Governors.

Chang and Hansson will each give a talk during the TMS/Acta Materialia Distinguished Lecture Series February 15 at the TMS 2009 Annual Meeting in San Francisco.

Chang is a Wisconsin Distinguished Professor Emeritus and works with graduate students in the Department of Materials Science and Engineering. He has been educating students at the University of Wisconsin since 1980.

Chang studied materials science early in his career with research in thermodynamics and metal refining before

he advanced to thermodynamics modeling/phase diagram calculations. He later studied scientifically interesting and technologically relevant structural, electronic, and magnetic properties of materials, in bulk or nanoscale form. He has received numerous awards including the TMS William Hume-Rothery Award in 1989; the Extraction & Processing Division Distinguished Lecturer Award in 1993; the Champion H. Mathewson Award in 1996; and the John Bardeen Award in 2000.

Chang earned a B.S. degree in chemical engineering and a Ph.D. in metallurgy from the University of California, Berkeley, and an M.S. degree in chemical engineering from the University of Washington, Seattle. He joined TMS in 1962, and was named a TMS Fellow, the highest honor bestowed by the society, in 1991. He served as TMS president in 2000.

Hansson is internationally recognized for her application of basic science and engineering to the many aspects of environmental degradation of materials, particularly the corrosion and erosion of metals and alloys during service. Her research has had a major role in linking basic materials science with the consequences of environmentally damaging exposure and the engineering applications and service performance of materials.

Hansson's most recent research focuses on the understanding of service life assessments of degradation in highway structures, emphasizing improvements in the composition and processing of both the reinforcement and concrete. She has authored and co-authored more than 130 scientific papers and reports.

Hansson is a professor in the Department of Mechanical and Mechatronics Engineering at the University of Waterloo. She received her degrees from Imperial College, London. A senior member of TMS, Hansson joined the society in 1968 and was named a TMS Fellow in 1997.

SINGHAL RECEIVES GROVE MEDAL



Subhash Singhal, a Battelle Fellow and director of fuel cells at the U.S. Department of Energy's Pacific Northwest National Laboratory (PNNL), received the 2008 Grove Medal. He was awarded the medal for sustained advances in fuel cell technology.

Singhal provides senior technical, managerial, and commercialization leadership to PNNL's fuel cell program. Prior to joining the laboratory in 2000, he led the development of solid oxide fuel cell technology from a laboratory curiosity to fully integrated 200 kilowatt power-generation systems while at Siemens Corporation, formerly Westinghouse Electric Corporation.

Singhal is also an adjunct professor of materials science and engineering at the University of Utah, and serves on the visiting advisory board of the Department of Materials Science and Engineering at the University of Florida, and the advisory board of the Florida Institute of Sustainable Energy. He serves on numerous national and international advisory panels and has authored more than 85 scientific publications and received 13 patents, among other recognitions.

Singhal received his Ph.D. in materials science and engineering from the University of Pennsylvania. He joined TMS in 1966 and is a senior member. Singhal received the Grove Medal at the Grove Symposium on Fuel Cell Science and Technology in Copenhagen, Denmark, in October.

Submitting Member News

Member News provides updates on the professional activities of TMS members, including announcements of awards, promotions, new jobs, and retirements. To submit news about a TMS member for consideration in a future issue of Member News, contact Francine Garrone, JOM news editor, at fgarrone@tms.org.