

2008 Industrial Polymer Scientist Award

2008 Industrial Polymer Scientist Award

Dr. S. Richard Turner has been named the recipient of the 2008 Industrial Polymer Science Award sponsored by the Industrial Sponsors Group of the American Chemical Society's Division of Polymer Chemistry. This award, in recognition of his outstanding industrial innovation and creativity in the application of Polymer Science, will be presented by the Division of Polymer Chemistry at the 2008 Fall National Meeting of the ACS in Philadelphia, PA. Richard has served a unique position in our professional society with significant accomplishments in the fundamentals of polymer chemistry, commercialization of novel families of polymers, and now through his role in the academic arena, the translation of this experience to the next generation of industrial scientists and engineers.

Richard's research accomplishments have had a major impact across a broad range of polymer science, ranging from novel polymers for new resist materials to polymer nanocomposites for barrier enhancement. His work has resulted in over 100 U.S. patents, and has led to the development of useful new polymerization processes as well as unusual monomers and polymeric materials. Richard is a graduate of Tennessee Technological University with both bachelors and masters degrees in Chemistry, and he completed his Ph.D. degree in Organic Polymer Chemistry at the University of Florida. After working at the Xerox Corporation Research Laboratories in Webster, New York, Richard moved to positions at Exxon Research and Engineering and the Corporate Research Laboratories at Eastman Kodak Company in Rochester, New York before joining the Polymers Research Division of Eastman Chemical Company where he was a Research Fellow. In 2004 he joined the faculty at Virginia Tech as Research Professor and Director of the Macromolecules and Interfaces Institute.



Robert Moore (L), Richard Turner ©

POLY Awards
Industrial Polymer Scientist Award-Previous Awardees
2000-2008

2006 Industrial Polymer Scientist Award

Congratulations to **Dr. James Hedrick** of IBM Almaden Research Center, winner of the 2006 Industrial Polymer Scientist Award! The award recognizes Hedrick for outstanding industrial innovation and creativity in the application of polymer science, conducted by individual scientists or research teams. The Award consists of a plaque, \$2,000.00 honorarium, and travel expenses. A symposium in Dr. Hedrick's honor was held during the San Francisco ACS Meeting.



Robert Moore (L), James Hedrick, Kathleen Havelka (POLY Chair)

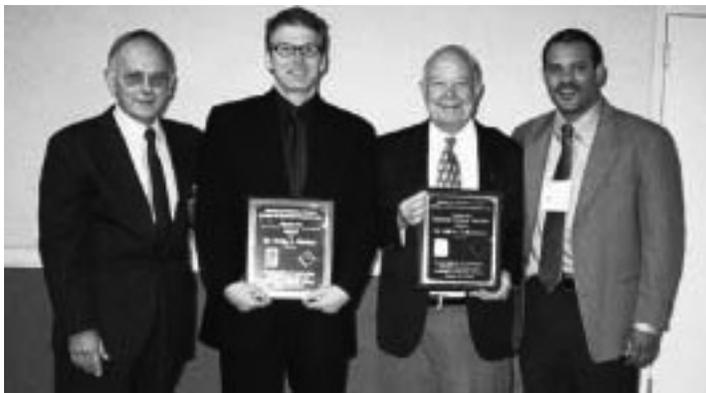
2004 Industrial Polymer Scientist Award

Craig J. Hawker

Dr. Hawker received his Ph.D. from Cambridge University in 1988 and has since distinguished himself in the areas of synthetic polymer chemistry of novel polymers and nanostructured materials, especially dendrimers and hyperbranched materials. His work on the controlled synthesis of porogen materials for ultra low dielectric insulating materials for microelectronics packaging is one of the leading routes to enable the design and manufacture of all future advanced microelectronic devices. His work on novel crosslinked thin films used to protect and package sensitive electronic parts and as the recording layer of the novel "Millipede" compact storage systems (named one of Industry Week's 2003 Technologies of the Year) has led to new developments and manufacturing processes. He has over 180 papers and 27 patents. Craig has been recognized by IBM with 10 separate patent awards and is a recipient of the Polymer Chemistry Division's Carl S. Marvel Creative Polymer Chemistry Award.

Bill M. Culbertson

Dr. Culbertson received his Ph.D. from the University of Iowa in 1963 and has had a highly distinguished 27 year industrial career in the area of new monomer and polymer synthesis of engineering thermosets and thermoplastics. He was one of the very early pioneers to study polymers having in-chain, mixed, heterocyclic ring moieties, which have better solubility, improved processability and improved high temperature properties. He did pioneering work on acyl aminimides, showing that they could be heated to obtain new polymers with pendant isocyanate residues. This opened a new area of study for a variety of polyacrylate, methacrylate and styrenics for the coatings and adhesives industries. His work with maleic anhydride (MA) and maleimide monomers, polymers and copolymers lead to the commercialization of scale inhibitors and the development of MA grafted polypropylene for improving blends with polypropylene and nylon. He coauthored a book on MA, which became a bible to those working with MA. He discovered that different bisoxazolines copolymerize with diphenolics or phenolic type resins to produce high performance aromatic polyetheramides, with the thermosets called PEAR resins. Bill has over 86 articles, several books and book chapters, and 38 patents relating to his industrial career.



Rober Moore (L), Craig Hawker, Bill Culbertson, Ken Carter (POLY Chair)

POLY Awards
Industrial Polymer Scientist Award-Previous Awardees
2000-2008

2002 Industrial Polymer Scientist Award

The recipient of the 2002 POLY Industrial Sponsors Award is **Dr. Lloyd Robeson** from Air Products and Chemicals. Dr. Robeson received his B.S. in Chemical Engineering from Purdue University in 1964 and his Ph.D. in Chemical Engineering from the University of Maryland in 1967. He was a major contributor to the polymer science and engineering efforts at Union Carbide Corporation until 1986, at which time he joined Air Products and Chemicals where he currently still serves as a principle research associate.

Dr. Robeson is considered to be the major industrial contributor to the field of polymer blends in the United States. Since joining Air Products and Chemicals, he has further expanded his scientific contributions into the areas of membrane separations, surface modification, and new polymers for electronic applications. Some of the documented contributions that he has made thus far in his prolific career include 84 patents, over 70 publications, and co-authorship of 3 books. In addition to his published contributions, Dr. Robeson has also contributed to his areas of expertise by serving on numerous technology councils and editorial boards. In 2001 Dr. Robeson was elected to the National Academy of Engineering for his significant scientific and technological contributions in polymer blends and engineering polymers. The recognition and celebration of his extraordinary contributions continues this years with the POLY Industrial Sponsors Award.

The POLY Industrial Sponsors Award is given to recognize outstanding industrial innovation and creativity in the application of Polymer Science, conducted by individual scientists or research teams. The Award consists of a plaque and an honorarium in the amount of \$2000. Travel expenses to the symposium are paid in addition to the honorarium.

The award symposium and presentation will take place at the ACS National Meeting in Boston August 18-22 2002.

POLY Awards
Industrial Polymer Scientist Award-Previous Awardees
2000-2008

2001 Industrial Polymer Scientist Award

The Industrial Sponsors Group of the Division of Polymer Chemistry has announced that its Industrial Polymer Scientist Award for 2001 will be presented to **Dr. Alan D. English**, Research Fellow, duPont Co. at the Chicago ACS Meeting. This award is presented in recognition of the significance, the creativity, and the innovation of the many contributions Dr. English has made to polymer science in an industrial setting. The award symposium in his honor is scheduled for Tuesday morning, August 28th at the McCormick Place - South convention center. The reception in his honor will be held at the Sheraton Chicago Hotel on Tuesday evening from 5:30 to 7 p.m.



Bill Britton, Alan English, Robert Moore

POLY Awards
Industrial Polymer Scientist Award-Previous Awardees
2000-2008

2000 Industrial Polymer Scientist Award

During the ACS meeting in Washington DC, the Division of Polymer Chemistry, Inc. hosted the first Industrial Sponsors Awards Reception immediately following the Tuesday session of the Industrial Sponsors Symposium. The event was held in the JW Marriott, Grand Ballroom Foyer (Tues. Aug. 22) at 5:30 PM. The Division of Polymer of Chemistry approved in 1998 an INDUSTRIAL POLYMER SCIENTIST AWARD to "recognize outstanding industrial innovation and creativity by individual scientists and research teams". The first solicitation for nominations was very successful with seven excellent nominations received. The best one was selected by the Division Awards Committee for the combined efforts of **DR. HARRY MANDEVILLE AND DR. S. RANDALL HOLMES-FARLEY** at Geltex Pharmaceutical, Inc.

They were recognized at the Washington ACS meeting in a special symposium and above reception including the award presentation. Each Awardee will received a \$2,000 honorarium, a plaque, and travel expenses. This program is supported by the Industrial Sponsors Group of the Polymer Division.



Harry Mandeville (L), Tom Pacansky (middle, POLY chair), S. Randall Holmes-Farley (R)