

The 1985 Society of Automotive Engineer's Arch T. Colwell Merit Award winners:

- Karl-Heinz, Muhr Und Bender, "Properties of Cold Coiled Automotive Suspension Springs From High Strength Si-Cr-V Wire" (850057)
- Chehroudi Behrouz, Shih Hsiung Chen and Frediano V. Bracco, Princeton University, and Yoshiaki Onuma, Toyohashi University of Technology, "On the Intact Core of Full-Cone Sprays", (850126)
- M. E. G. Sweeney, Robert G. Kenny, Georg G. G. Swann, and Gordon P. Blair, Queen's University of Belfast, "Single Cycle Gas Testing Method for Two-Stroke Engine Scavenging", (850178)
- Norman D. Brinkman and Russell F. Stebar, General Motors Research Lab, "A Comparison of Methanol and Dissociated Methanol Illustrating Effects of Fuel Properties on Engine Efficiency – Experiments and Thermodynamic Analysis", (850217).
- Berthold W. Schmacher, J. C. Cooper, Walter Dilay, Ford Motor Company, "Resistance Spot Welding Control that Automatically Selects the Welding Schedule for Different Types of Steel", (850407)
- Simon Chin-Yu Tung and James L. Linden, General Motors Research Lab, "Modeling Torque Converter Clutch Viscous Damper Performance", (850459).
- Sumio Kamiya, Hiroshi Kawamoto, Mikio Murachi, Saroshi Kato, Seiho Kawakami, and Yasumitsu Suzuki, Toyota Motor Corp., "Silicon Nitride Swirl Lower-Chamber for High Power Turbocharged Diesel Engines", (850523)
- Michael R. Hoeprich, The Timken Co., "Numerical Procedure for Designing Rolling Element Contact Geometry as a Function of Load Cycle", (850764).
- Bruce P. Selberg and Kamran Rokhsaz, University of Missouri-Rolla, "Analytical Study of three-Surface Lifting Systems" (850866).
- Nobuyuki Kobayashi, Yoshiro Kimbara, Kazuo Sinoda, and Hiroshi Koide, Toyota Motor Corp., "NOx Reduction is Compatible with Fuel Economy Through Toyota's Lean Combustion System", (851210)
- Fukashi Sugasewa, Hiroshi Kobayashi, Toshihiko Kakimoto, Yasuhiro Shiraishi, and Yoshiro Tateishi, Nissan Motor Co., "Electronically Controlled Shock Absorber System Used as a Road Sensor Which Utilizes Super Sonic Waves", (851632).
- Lawrence D. Willey, Pratt & Whitney, "Aero-Mechanical Measurements of Vorticity in Fluid Flow", (851894)