

## REFERENCES

- ACT (2003), "Maintaining a Strong Engineering Workforce", [www.act.org](http://www.act.org)
- Brezocnik, M., Balic, J., and Brezocnik, Z., 2003, "Emergence of Intelligence in Next Generation Manufacturing Systems", *Robotics and Computer Integrated Manufacturing*, **19**, pp. 55 – 63.
- Bruffee, Kenneth (1993) Collaborative Learning: Higher Education, Interdependence and the Authority of Knowledge, Baltimore, Johns Hopkins Univ. Press.
- Bucciarelli, Louis L. (1996). Designing Engineers. Cambridge, MA: MIT Press
- Burns, L.D., McCormick, J.B., and Borroni-Bird, C.E., 2002, "Vehicle of Change", *Scientific American*, **287**, pp. 64 – 74.
- Campitelli, A., and Parton, E., 2002, "BioMEMS: Marrying ICs and Biotech", *Solid State Technology*,
- CED (2003), "Learning for the Future: Changing the Culture of Math and Science Education to Ensure a Competitive Workforce", [www.ced.org](http://www.ced.org)
- Fells, I., 2002, "Clean and Secure Energy for the Twenty-First Century", *Proc. Instn. Mech. Engrs. A*, **216**, pp. 291 – 294.
- Grinter, L.E., (1995) Summary of the Report on Engineering Education, Journal of Engineering Education, pp. 25-60, and reprinted in Journal of Engineering Education, 1994.
- Jiji, L.M., Delale, F. and Liaw, B. (1996) Home Experiments in Mechanical Engineering. 1996 ASEE Annual Conference Proceedings. Washington, DC: American Society for Engineering Education.
- Judy, J.W., 2001, "Microelectromechanical Systems (MEMS): Fabrication, Design and Applications", *Smart Mater. Struct.*, **10**, pp. 1115 – 1139.
- King, J.A., Morris, L.L., and Fitz-Gibbon, C.T. (1987). How to assess program implementation. Newbury Park, CA: Sage Publications, INC.
- Lau, K.-T., and Hui, D., 2002, "The Revolutionary Creation of New Advanced Materials – Carbon Nanotube Composites", *Composites: Part B*, **33**, pp. 263 – 277.
- Lipsey, M.W., and Cordrary, D.S. (2000). Evaluation methods for social intervention. Annual Review of Psychology, **51**, 345-375
- McVeigh, J., Burtraw, D., Darmstadter, J., and Palmer, J., 2000, "Winner, Loser, or Innocent Victim? Has Renewable Energy Performed as Expected?", *Solar Energy*, **68**, pp. 237 – 255.
- Mc Dermott, Lilian C. (1991), Millikan Lecture 1990: what we teach and what is learned-closing the gap. Am. J. Phys. **59** (1991).
- National Academy of Engineering (2002), Technically Speaking: Why All American Need to Know More About Technology. Washington, DC: National Academy Press.
- National Research Council (2000), How People Learn: Brain, Mind, Experience and School. Washington, DC: National Academy Press.
- National Research Council (2003), Improving Undergraduate Instruction in Science, Technology, Engineering and Mathematics: Report of a Workshop, Washington, DC, National Academic Press.
- National Science Foundation (1996), Shaping the Future: Restructuring Engineering Education: A Focus on Change (NSF 95-65). Arlington, VA: Author.
- Sheirer, M.A. (1994). Designing and using process evaluation. In J.S. Wholey, H.P. Hatry, and K.E. Newcomer (Eds), Handbook of practical program evaluation, pp41-69. San Francisco: Jossey-Bass.
- Valenti, Michael (1996), Teaching Tomorrow's Engineers. Mechanical Engineering, **118**(7), pp. 64-69.

Valenti, Michael (1996), Maintaining a Strong Engineering Workforce, [www.act.org/research/policy/pdf/engineer.pdf](http://www.act.org/research/policy/pdf/engineer.pdf)