## REFERENCES

- [1] Hamed, F.K.M. 2010. Evaluation of Fatigue Resistance for Modified Asphalt Concrete Mixtures Based on Dissipated Energy Concept. PhD diss., Technishe Universität Darmstradt.
- [2] Bahia, H.U., Hanson, D. I., Zeng, M., Zhai, H., Khatri, M. A. and Anderson, R.M. 2001. NCHRP 459-Characterization of Modified Asphalt Binders in Superpave Mix Design, Transportation research board, NRC, Washington DC.
- [3] Kumar, R. 2009. *The Manufacturing Process of Asphalt Cement*. The Chemist Home. http://chemistcore.blogspot.com/2009/03/manufacturing-process-of-asphalt-cement.html [accessed January 12, 2011].
- [4] Anderson, D., J. Youtcheff and M. Zupanick. 2000. Asphalt Binders. TRB Committee on Characteristics of Bituminous Materials, TRB Millennium Paper Series.
- [5] Illinois department of Transportation. 2005. Pavement Technology Advisory-Polymer Modified Hot Mix Asphalt-PTA D5.
- [6] WAPA. 2002. Asphalt Pavement Guide. Washington Asphalt pavement Association. www.asphaltwa.com/wapa\_web/modules [accessed December 13, 2010].
- [7] Patrick, L. 2003. Asphalt pavements: a practical guide to design, production and maintenance for engineers and architects. London: Spon Press.
- [8] PMB Facts, www.bp.com/liveassets/bp\_internet/bitumen/pmb\_facts.pdf [Accessed December 22, 2010]
- [9] Airey, G.D. 2004. Styrene butadiene styrene polymer modification of road bitumens. *Journal of materials science* 39: 951-959. www.springerlink.com/index/MT5432L26G5G23L2.pdf [Accessed 18th December 2010].
- [10] Cua, G., Cash, C., G., 2003, Standard Guide for Estimating the Dispersion of Fluorescing Polymer Modifiers in Asphalt, *Interference*, pp 6-8.
- [11] Hanyu, A., Ueno., S., Kasahara, A., Saito, 2005, K., Effect of the Morphology of SBS Modified Asphalt on Mechanical Properties of Binder and Mixture, *Journal of Eastern Asia Society for Transportation Studies*, 6, pp. 1153 1167

- [12] Uranga, O., G., Rheological Properties of Bitumen Modified With Polyethylene and Polyethylene Based Blends, www.sciencedirect.com, [Accessed 21st January 2011]
- [13] AAPA, 2004, Code of Practice: Manufacture, Storage and Handling of Polymer Modified Binders, 1st edition. Australian Asphalt Pavement Association.
- [14] Van der Ven, M.F.C., Jenkins, K.J., Bahia, H.U. 2004. Concepts used for development of bitumen specifications. Proceedings of the 8<sup>th</sup> conference on asphalt pavements for southern Africa, Sun Cty, South Africa, September 12 16. asac.csir.co.za/capsa/Documents/070-4.pdf
- [15] ASTM D 6084 06, Standard Test Method for Elastic Recovery of Bituminous Materials by Ductilometer, American Society of Testing Materials.
- [16] AG:PT/T123, Toughness of Polymer Modified Binders (Force Ductilometer), Austroads Standards.
- [17] ASTM D 7405 08, Standard Test Method for Multiple Stress Creep and Recovery (MSCR) of Asphalt Binder Using a Dynamic Shear Rheometer, American Society of Testing Materials.
- [18] ASTM D 7173 05, Standard Practice for Determining the Separation Tendency of Polymer from Polymer Modified Asphalt, American Society of Testing Materials.
- [19] US Department of Transport, Superpave Fundamentals, *reference Manual*, National Highway Institute
- [20] ASTM D 6931 07, Standard Test Method for Indirect Tensile (IDT) Strength of Bituminous Mixtures, American Society of Testing Materials.
- [21] Bureau of Indian standards. 2004. Indian standard on polymer and rubber modified bitumen. IS 15462.
- [22] Austroads, 2006, Specification Framework for Polymer Modified Binders and Multigrade Bitumens, 1<sup>st</sup> Edition.
- [23] European committee for standardization. 2010. Bitumen and bituminous binders: Specification framework for polymer modified bitumens. BS EN 14023.
- [24] Tia, M., Bituminous materials and mixtures, http://nersp.nerdc.ufl.edu/~tia/Bituminous-Materials.pdf [Accessed May 26,2011]

- [25] AG:PT/T124, Toughness of Polymer Modified Binders (ARRB Extensiometer), Austroads Standards.
- [26] AG:PT/T121: shear properties of polymer modified binders (ARRB elastometer), Austroads Standards.
- [27] US department of Transportation, Superpave mixture design guide, 2001. http://www.wsdot.wa.gov/NR/rdonlyres/2EA4DD2E-2EE6-42AB-A116-24A310241971/0/SuperpaveDesGuide.pdf [Accessed on 9<sup>th</sup> June 2011]
- [28] Shell Bitumen, 2003, *Shell Bitumen handbook*, 5<sup>th</sup> ed. Thomas Telford publishing.
- [29] Transportation research board of the national academics, 2010, *NCHRP Report 648: Mixing and compaction temperatures of Asphalt Binders in Hot mix asphalt*, onlinepubs.trb.org/onlinepubs/nchrp/nchrp\_rpt\_648.pdf [Accessed on 3<sup>rd</sup> November 2011]
- [30] Department for Internal Development, 2002, Overseas road note19:A guide to the design of hot mix asphalt in tropical and sub-tropical countries.

