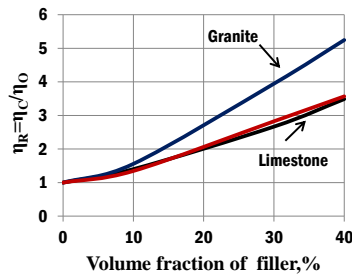
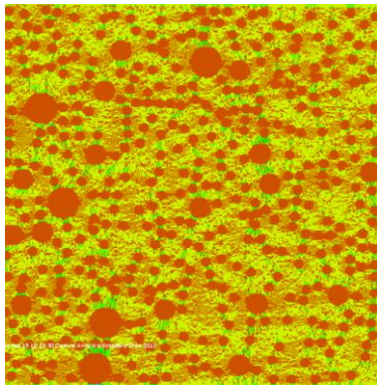


Advanced Models and Methods to Characterize Mastics



Monday June 18th, 2012
Lecture Room C, Stevinweg 1
Delft, Netherlands

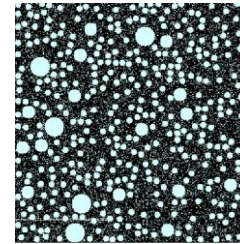
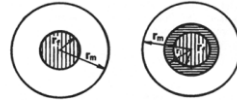
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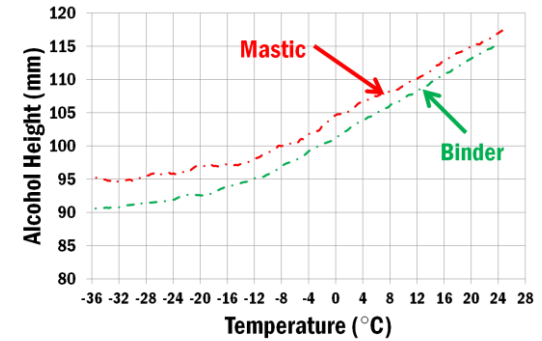
Currently, performance-based specifications are not available for the selection of asphalt mastics (i.e., mineral filler + asphalt binder). In the past, mechanical properties of mastics were obtained based on over-simplified models.



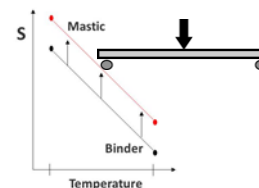
In the past years, it has been recognized the importance of mastic characterization on the performance of the asphalt mixtures subjected to a variety of loading and environmental conditions. Recently, the characterization of asphalt mastics has evolved to incorporate test methods and models that address non-linearity and damage evolution.

Understanding the interactions between binder and fillers and in general the damage evolution and mechanical response of asphalt mastics has been recognized as an important step to fully characterize the mechanical response and long-term performance of asphalt mixtures.

This second workshop is being organized by the Working Group 07 on Bitumen and Mastics of the Technical Committee on Constitutive Modeling of the International Society for Asphalt Pavements (ISAP). The main objective of this workshop is to serve as a platform for exchange

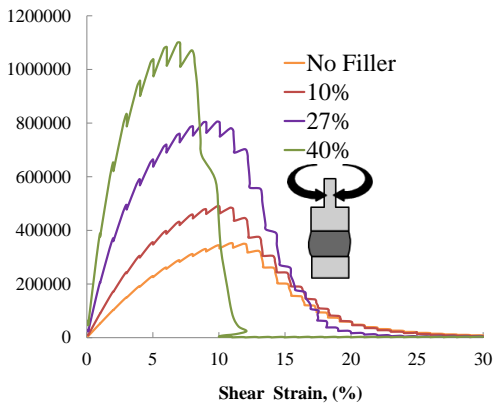
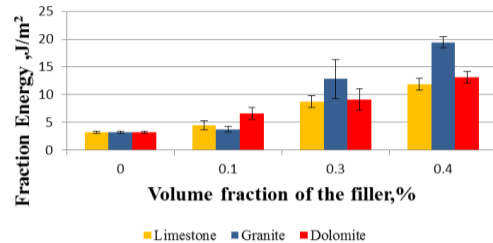
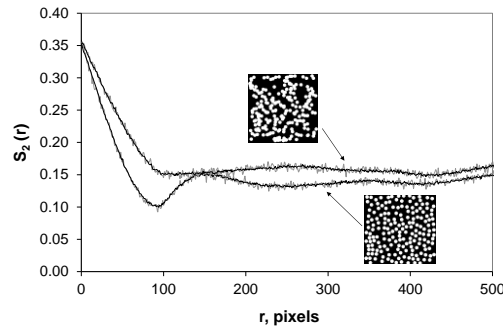
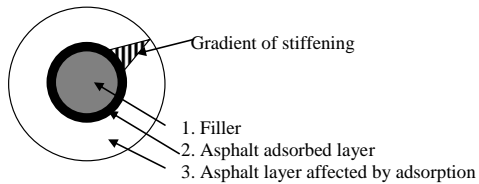


of information on the state-of-art in various aspects of modeling and characterization of asphalt mastics. The workshop will also facilitate further development of a vision and needs statement for the technical committee and future research in this area.



List of Topics and Speakers

#	Topic/Area	Speaker
Monday June 18th, 9:00 am-12:00 pm		
1	Historical background on modeling and characterization of asphalt mastics	M. van de Ven
2	European perspective of asphalt mastic characterization	F. Hammoum
3	US efforts on asphalt mastic modeling and characterization	H. Bahia / R. Velasquez
4	Effect of filler physico-chemical characteristics on mastic response	S. Vansteenkiste
Monday June 18th, 1:30 pm-4:30 pm		
5	Moisture damage in asphalt mastics	N. Kringos/ E. Hesami
6	Multi-scale modeling of mastics	R. Blab
7	Durability and aging in mastics	G. Airey
Summary		
8	State of the art, vision for modeling efforts, and concluding discussion	Round Table Discussion



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Format

There will be a 45 minute time slot devoted to each topic. This includes about 25 minutes for presentation on state of the art on the topic followed by a 20-minute discussion. The last presentation will be two hours and will include time for brainstorming and developing agenda for future discussions.

Proceedings

The proceedings will be made available for download after the workshop. The proceedings will include presentations in PDF format, an abstract for each presentation, and a bibliography of readily available references in each topical area. The bibliography will be developed based on inputs from the presenters and participants during the workshop.

Registration

The registration fee is US\$200 for all participants except students (US\$75).

- Please address questions to Raul Velasquez at ravelasquez@wisc.edu
- Please register at <https://charge.wisc.edu/uwmarc/register.asp>

Location

Delft University of Technology will be hosting this event. Delft is a city and municipality in the province of South Holland, The Netherlands. It is located between Rotterdam and The Hague. Delft is known for its typically Dutch town center with beautiful canals. For more information about accommodation visit the workshop webpage at www.uwmarc.org



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