



5. Smart Dust Mote

Crossbow

Mote

, MEMS



6. Crossbow Civil & Structural Solution

MEMS

2. Kristofer Pister, Preliminary Smart Dust Mote, Berkeley Sensor & Actuator Center, 2000, 9

3. , , , 2004. 4. 7 : () jrkim@kict.re.kr

Warm Mix Asphalt Technologies and Research

Warm Mix Asphalt(WMA) . WMA

가 가 (HMA : Hot Mix Asphalt) 300 가

가 가 HMA 가 가 가 가 가

1. Two Demonstrations of MEMS in Civil Engineering, Journal of Aerospace Engineering, Vol.16, No.3, July 1, 2003. ASCE

가 가 .

WMA

가

:

1.

가 가
가

Aspha-Min
(zeolite)

가

. WMA

2.

HMA

가

WAM-Foam

(Warm Asphalt Mix Foam)

3. Sasobit

가

(:

, Fischer-Tropsch

가 ,

Asphaltan B
가



1. WMA HMA 가

(NCAT : National Center for
Asphalt Technology)

WMA

Aspha-

Min WAM-Foam

. NCAT

WMA

Eurasphalt & Eurobitume
Congress, World of Asphalt

NAPA

HMA

가

WMA

(FHWA Office of Pave-
ment Technology)

NAPA

가

가

가

(NAPA : National Asphalt
Pavement Association)

1. <http://www.fhwa.dot.gov/pavement/wma.htm>

2. 3rd Eurasphalt & Eurobitume Congress-
Session2 Cold/warm processes and
recycling

3. <http://www.worldofasphalt.com/News>

: ()
kihyun@kictre.kr