



SESSION OF TECHNICAL COMMITTEE C4-3

“Road Pavements”

MAIN RESULTS OF SEMINARS ORGANISED BY COMMITTEE C4-3

DREIF - Pôle RST

LROP

Jean-Pierre CHRISTORY
DREIF / LROP – France
21 September 2007



THE STREET IS NOT A ROAD





THE ROAD TO DEVELOPMENT

DEPENDS ON ...

THE DEVELOPMENT OF THE ROAD



SEMINARS OF THE TECHNICAL COMMITTEE ON ROAD PAVEMENTS

★ URBAN PAVEMENTS

Krakow, Poland

21/22 September 2005



Coordinator : L.E. SERRANO

★ ROAD PAVEMENT MAINTENANCE

Havana, Cuba - 18/19 April 2007



Coordinator : D. SYBILSKI

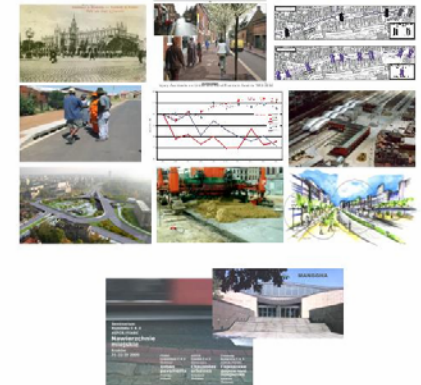
260 delegates – 25 countries



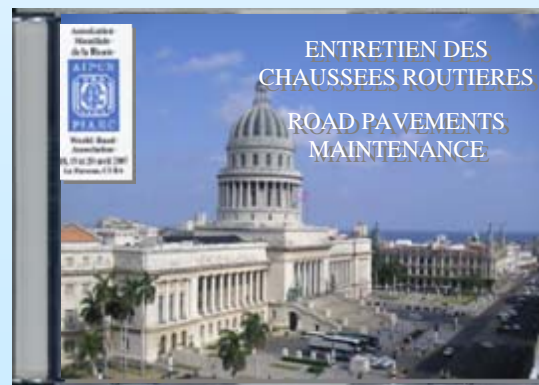
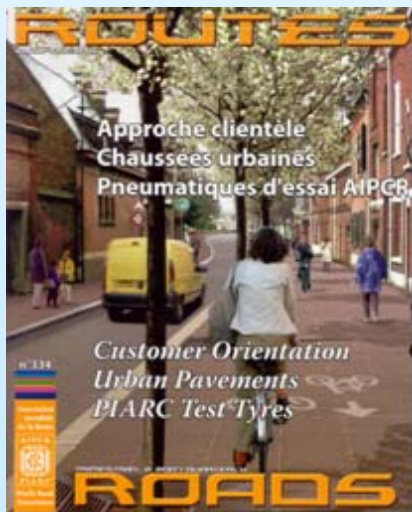
PUBLICATION ELEMENTS



PIARC Seminar, Committee C4-3 « Urban Pavements »
Krakow, Poland, 21 and 22 September 2005



OUTPUT OF C4-3 SEMINARS



SESSIONS OF SEMINAR ON “Road Pavements”



1 – Players and resources for urban infrastructures

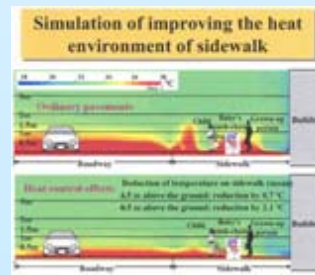
2 – Issues and specificities of urban roadways

3 – Design of roadways and public spaces

4 – Specific maintenance techniques

5 – Specific sustainable development

6 – Acceptability of worksites and works on road networks



RISE OF URBAN INFRASTRUCTURES

Worldwide: in 2007, more than half of the world's population is living in urban areas (two thirds by 2030); by 2015 some 550 cities > 1 million inhabitants (96 in 1950), 35 cities > 10 million inhabitants



RE-CATEGORISE STREETS DESIGNED LIKE ROADS

RISE OF URBAN INFRASTRUCTURES

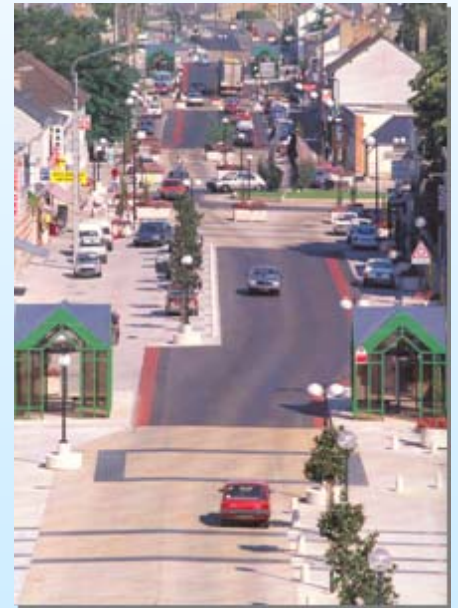
| Roads and streets of the future | Characteristics |
|---|--|
| ROADS FOR ALL ENVIRONMENTAL ROADS COOPERATIVE ROADS TANGIBLE RESPONSES FOR ROADS AND STREETS OF THE FUTURE | durable reliable Available |
| | energy efficient environment Sustainable |
| | smart safe accessible |
| | multi-functional multi-usable |

MANY URBAN PLAYERS



NORMALITY: ROADWAYS FOR ALL

ROAD SAFETY IN TOWN



THROUGH SPACE PLANNING AND FACILITY OPERATION

A GLOBAL AND MULTIDISCIPLINARY APPROACH SPECIFICALLY

Available street



Mixed street



Curtain street

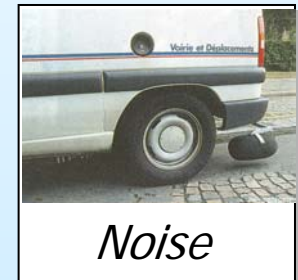
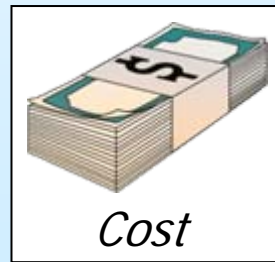
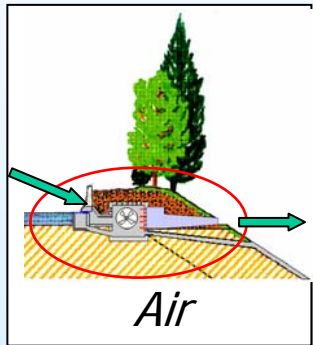
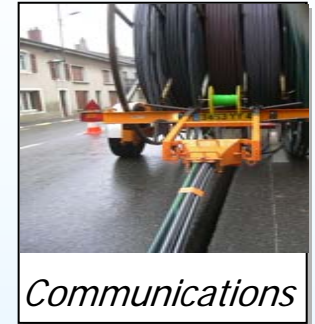
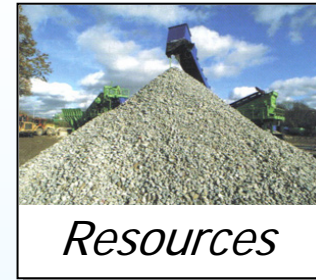
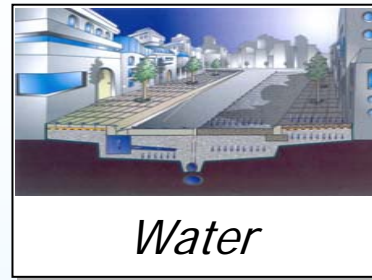


Multifunction street



DESIGN MODELS: ADVANCED METHODS FOR PUBLIC
SPACE PROJECTS

A GLOBAL AND MULTIDISCIPLINARY APPROACH SPECIFICALLY



ROADWAY WITH HIGH URBAN AND ENVIRONMENTAL QUALITIES



“FURTIVE” WORKSITES



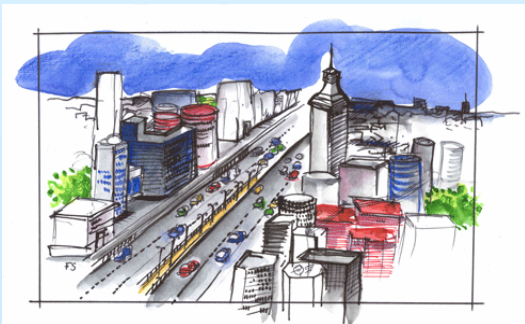
NEED FOR WORKSITE ACCEPTABILITY THROUGH THE REDUCTION OF DISTURBANCES FOR ALL



CONCLUSIONS OF SEMINAR ON “Urban Pavements”

THE URBAN ENVIRONMENT IS :

- ⇒ very different from that of the road
- ⇒ conducive to innovations and sustainable development
- ⇒ a crossway for integration and debate on its sharing
- ⇒ a significant heritage calling for rigorous asset management and coordination



SESSIONS OF SEMINAR ON “Road Pavement Maintenance”



- 1 – Pavement evaluation
- 2 – Maintenance techniques
- 3 – Recycling techniques
- 4 – Choice of types of maintenance operations



SOME INGREDIENTS FOR PROCESSES TOWARDS PROGRESS IN ROAD PERFORMANCE:



- financial resources
- equipment
- technical knowledge
- embracement of new techniques
- qualification of labour
- others...



RENEWED AND PERSONALISED TOOLS FOR DIALOGUE BETWEEN DECISION MAKERS AND TECHNICIANS



Users



Public authorities



*Industries
Enterprises*



*Research
centers*



Operators

The harder and more stringent the conditions, the greater should be the relative degree of maintenance

GRADUAL PRAGMATISM AND DISCERNMENT



Road investigation methods and tools



Recycling and stabilisation of soils

ORGANISING AND ENHANCING EXPERIMENTAL ROADS: CREATING LINK BETWEEN RESEARCH, DOCTRINE AND THE FIELD

CONCLUSIONS OF SEMINAR ON “Road Pavement Maintenance”

- ⇒ Robust decision logic: maintenance is an investment
- ⇒ Renewal of tools for dialogue between decision makers and men of the art
- ⇒ Preservation and strengthening of competence chain to produce sustainable roads
- ⇒ Pavement evaluation and monitoring tools which are accessible, reliable and embraced by people in their context



GENERAL CONCLUSIONS OF SEMINARS OF TECHNICAL COMMITTEE C4-3



Urban Pavements (Krakow)



Road Pavement Maintenance (Havana)

- Quality of organisations and assiduity of participants
- Basic trades and new trades
- Density of contents, debates, proposals, statement of needs
- Synergy of expert alternation practices
- Irreplaceable role of plenary sessions and collective debates
- Return on intellectual and financial investment
- Durability of links created and implementation of recommendations

} To be
evaluated

**Irreplaceable role of continued PIARC “Seminar” action in
sharing the culture of performance**

