



ISAP - International Society for Asphalt Pavements
4711 Clark Avenue, Suite G, White Bear Lake, MN, USA 55110
Tel: +1 65 293-9188, Fax: +1 65 293-9193, Email: Secretary@asphalt.org

ISAP Technical Committee APE *Asphalt Pavements and Environment*

Subject: 2nd Annual Meeting of APE ISAP TC
January 10th 2010 during 89th TRB Annual Meeting in Washington DC, USA

1. Welcome and Introduction

The Committee Chair Manfred Partl called the meeting to order at 1:30 pm. Opening the meeting the chairman made a brief welcome and then asked for self-introductions. A total of 17 persons were attending the meeting. A list of attendees is provided in Attachment A. A copy of the meeting agenda is provided as Attachment B.

2. Approval of last meeting minute

The TC Secretary Gabriele Tebaldi illustrated the last year meeting minute. The minute are accepted. A copy of the meeting agenda is provided as Attachment C.

3. New web site

Gabriele Tebaldi showed the changes in the web site, the new member registration method and the possibility to have private pages.

4. Presentation of IJRMPD Special Issue on Asphalt Pavements and Environment

Manfred Partl and Gabriele Tebaldi presented the Special Issue of the International Journal of Road Materials and Pavement Design on Asphalt Pavements and Environment. The Special Issue will be published in the first part of the 2010 and will include 8 papers.

5. Feedback from 2009 Workshops and Conferences

Manfred Partl provided an overview on the activities organized by the TC or sponsored by the TC and asked to the TC delegate in each event to make a brief report.

Manfred Partl described the Quindao workshop on RAP recycling, organized in China in August by Shin Che Huang. Was a successful event with good attendance and a good discussion level. All the presentations and a summary are available on the TC web site.

Gabriele Tebaldi and Dariusz Sybilski described the workshop during Mairepav. The event was not a success; the invited speaker made a very good job, but, due to a lack of organization, the few people attended, so the discussion was very small. All the presentations and a summary are available on the TC web site.

Gabriele Tebaldi described the Fortaleza workshop on warm mixes and pavement design, organized by Jorge Soares. Was a two days event with a large number of participants, mainly from south America. The attendance was very high (about 40-45 person each day), the target was more focused on “technology/knowledge” transfer than on research discussion. All the presentations and a summary are available on the TC web site.

Manfred Partl and Gordon Airey made report about a small workshop in Nottingham.

Dariusz Sybilski described the Enviroad Conference. Was a successful event with a large number of participants, in particular was good point of contact among west Europe, USA and east Europe researchers. In force of the results was decided to organize another edition in the 2011. All the presentations are available on the IBDM website.

Gabriele Tebaldi, Secretary

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Gordon Airey made a report of the November 27 webinar. About ten people took part at the electronic discussion. The main topic was to define some topic to focalize the next step of WG activities. From the discussion came out noise, solar energy, thermal effect of pavement on the environment.

6. Work Group activities

John Harvey made a presentation of the strategic plan of WG on LCA (the plan is available on the TC web page). The work group organized a questionnaire to collect information about LCA practice (the questionnaire is available on the TC web page). John Harvey announced that the workshop on Life Cycle Assessment for Pavements, planned for later 2009/early 2010 will be in May 2010, more information will be provided by email and by website. The presentations and the feedback from the workshop will be published on the TC website.

Gordon Airey described the strategic plan of WG on New Technology. The activities will follow the indications came out from the webinar and will have a link with the activities of Rilem TC on Nanotechnologies on Bituminous Materials

7. New Work Groups: goals, activities and working plans

Manfred Partl informed that Chantal de La Roche for personal problems not will continue to chair the WG1. Due to that and considering the availability of Kim Jenkins to create a work group focused on cold recycling on RAP and the availability of Peter Sebaaly to be involved as a chairman, he made the proposal in agreement with the Secretary and with the others Chairmen, to replace the WG on RAP Recycling by two new WGs: one on hot recycling, with chairman Peter Sebaaly, and one on cold recycling with chairman Kim Jenkins. Kim Jenkins already proposed some objectives for the cold recycling group: mix design approaches in various countries, structural design approaches in various countries (including distress mechanisms), research databases and information sharing, focus areas for future research.

Gerry Huber proposed to focus his activities on shingle recycling. Hence, Manfred Partl and Gabriele Tebaldi proposed to create a specific WG and to appoint Dariusz Sybilski as a chairman of the WG on By-products and Secondary Materials. After a brief discussion all these proposals were approved unanimously. Due to this, the new TC organization reads:

- WG 1 Hot Recycling of RAP
Chair: Peter Sebaaly
- WG 2 Cold Recycling of RAP
Chair: Kim Jenkins
- WG 3 Life cycle analysis
Chair: John Harvey
- WG 4 New technologies and special environmental aspects on asphalt pavements (solar and thermal energies, noise reduction,)
Chair: Gordon Airey
- WG 5 Shingle recycling
Chair: Gerry Huber
- WG 6 By-products and secondary materials: recycling in asphalt pavement
Chair: Dariusz Sybilski

Gabriele Tebaldi will contact the Chairmen to have the strategic plans as soon as possible to update the website.

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8. Proposal of 2012 Intermediate ISAP Symposium on Asphalt Pavements and Environment

Manfred Partl and Gabriele Tebaldi, in agreement with Jorge Soares, proposed to organize an intermediate ISAP Symposium in 2012 in Brazil. The idea is to make a follow up event similar to the Zurich symposium 2008, but now organized as a APE TC event. A copy of the proposal is provided in the Attachment D.

During the discussion was decided to change the date to avoid superposition with Eurobitume2012 and Cracking Conference 2012. The proposed date was April or October, may be in connection with the Rilem TCs annual meeting.

Manfred will make the proposal to the ISAP Board during the next Board meeting in Sacramento (during the AAPT annual meeting).

9. Asphalt Wikipedia

Manfred Partl proposed to make a state of the art that could be published/disseminate using a system like Wikipedia, to give the opportunity to the user to add information. It may be wise to contact the Wikipedia people to make some connections.

10. Nagoya Conference

Manfred Partl announced that the TC will have the opportunity to chair 2 session in ISAP conference in Nagoya the coming August. In those sessions papers with topic related with TC scopes will be presented.

11. 2010 Activities

- May, Workshop on LCA organized by John Harvey;
- June 11, Workshop on cold recycling organized by Kim Jenkins, in Parma before EATA Conference;
- March, presentation of TC activities during ISAP Forum at AAPT Annual Meeting 2010 in Sacramento
- August, technical session in Nagoya, during ISAP Conference 2010.

12. Next Meeting

The next meeting will be in January 2011 during the 90th TRB Annual meeting, the exact date will be announced as soon the ISAP secretariat will reserve a room in accordance with TRB meeting Organization Committee.

Manfred Partl
TC Chairman

Gabriele Tebaldi
TC Secretary

Gabriele Tebaldi, Secretary

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ATTACHMENT A

LIST OF ATTENDANCE

DANIEL PUIATTI	LHOIST Group	daniel.puiatti@lhoist.com
DIDIER LESUEUR	LHOIST Group	didier.lesueur@lhoist.com
BJORN BIRGISSON	KTH STOCKHOLM	Bjornbir@kth.sc
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GERRY HUBER	Heritage Group	gerald.huber@heritage.enviro
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JONGEUN BAEK	UIUC	baek2@illinois.edu

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ATTACHMENT B

MEETING AGENDA

Agenda ISAP TC APE Meeting

Sunday, January 10, 2010

1.30 ÷ 4.30 pm

Shoreham Hotel - Forum Room

Washington D.C.

- 1. Welcome, Introduction, Call of Participants**
- 2. Approval of last meeting minutes**
- 3. New web site**
- 4. Feedback from 2009 Workshops and Conferences**
 - Workshop at MAIREPAV 6 – Torino (Italy)
 - Workshop at AMC09 – Qingdao (China)
 - Workshop at SINAPRE VI – Fortaleza (Brazil)
 - ENVIROAD – Warsaw (Poland)
 - WEBINAR about new technologies on asphalt pavements
- 5. Presentation of IJRMPD Special Issue on Asphalt Pavements and Environment**
- 6. Work Groups activities**
 - APE WG 1 RAP Recycling - *Chantal de La Roche*
 - APE WG 3 Life cycle analysis - *John Harvey*
 - APE WG 4 New technologies and special environment aspects on asphalt pavements - *Gordon Airey*
- 7. New Work groups: goals, activities and working plan**
 - WG on Cold Recycling, proposed chairman: Kim Jenkins
 - WG on By-products recycling in asphalt pavements, proposed chairman: Gerry Huber
 - WG on Secondary materials recycling in asphalt pavements, proposed chairman: Peter Sebaaly
- 8. Proposal of 2012 Intermediate ISAP Symposium on Asphalt Pavements and Environment**
 - Date, location, organization
 - Contents
 - Steering committee
 - Scientific committee
 - Time planning
- 9. 2010 Activities**
- 10. Next meeting**
- 11. Any other business**

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ATTACHMENT C

2009 MEETING MINUTE

Subject: 1st Annual Meeting of APE ISAP TC
January 11th 2009 during 88th TRB Annual Meeting in Washington DC, USA

1. Welcome and Introduction

The Committee Chair Manfred Partl called the meeting to order at 2:00 pm. Opening the 1st TC annual meeting the chairman made several general introductory remarks, and then asked for self-introductions. A total of 33 were in attendance. A list of attendees is provided in Attachment A. A copy of the meeting agenda is provided as Attachment B.

2. Approval of last meeting minute

The TC Secretary Gabriele Tebaldi illustrated the kick-off meeting minute. The minute are accepted

3. Report from Zurich International ISAP Symposium on Asphalt Pavements and Environment

Manfred Partl Chairmen of the Zurich ISAP Symposium illustrated the conference details. He mentioned that the Symposium was a great success. After an opening address by the Director of Swiss Federal Roads Office, ASTRA, (FEDRO), Dr. Rudolf Dieterle and an introductory key note lecture from Prof. Gerhard Kennepohl from University of Waterloo (See ISAP Webpage), 165 participants from 34 different countries listened to the 72 papers that were presented in 18 sessions. The papers were compiled in hard cover proceedings with more that 800 pages and a CD. The best papers will be published in a special issue or RMPD (guest editors Partl, Tebaldi)

4. Report from ISAP Board meeting

The Chair Manfred Partl made a report of last ISAP Board meeting. The minute is provided in the attached file *2009-ISAP-Board-Meeting.pdf*

5. Work Group activities

Work group activities were discussed based on the topics that were compiled in the kick-off meeting after the ISAP2008 Symposium:

Material

- Asphalt **production** technologies
- **High-rate** recycling (performance and equipment)
- Perpetual **repeated** recycling
- **New** recycling technologies
- **By-products & secondary** materials (mix design, mech. prop., temp., emulsion type, pav. design, constr. Tech., in-place, in-plant,....)
- **Alternative** binders, vegetal additives

Environment

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- **Energy saving** & warm/half-warm & cold recycling (mix design, mech. prop., temp., emulsion type, pav. design, constr. Tech., in-place, in-plant,....)
- **Emissions** (fume, water, CO2)
- Asphalt pavement for **energy production** (solar, thermal,..)
- **Noise** reduction
- Unconventional **multi-functionality** (e.g. photocatalytic effects, self healing, self de-icing)

Performance

- RAP in relation to **durability** and structural stability
- **Moisture** damage
- **Aging** (mechanism and laboratory techniques)
- **Interaction** structure & performance

Life Cycle Issues

- **Life cycle analysis** modeling
- Life cycle cost analysis of **new** technologies
- Sustainability of **construction & maintenance** of asphalt pavements
- Environmental **restorations** of abandoned alignments

Implementation

- Strategies to **awaken** Road Authorities toward sustainable asphalt pavement
- Development of **common standards** across the world

It was recognized that the topics mentioned above and it the leaders of the WGs

- Chantal de La Roche (LCPC) convener of **WG 1 RAP Recycling** (focus hot, for the time being),
- Gerry Huber (Heritage Research Group) convener of **WG 2 By-products and secondary materials recycling in asphalt pavement**,
- John Harvey (University of California, Davis), convener of **WG 3 Life cycle analysis**
- Gordon Airey (University of Nottingham) convener of **WG 4 New technologies and special environmental aspects on asphalt pavements** (solar and thermal energies, noise reduction,)

were ask to produce a short concept and list of topics that they would propose as priority topics to be dealt with in their WG. This “strategic” draft working programs should serve as a basis for the different TC members to enlist to the different WGs.

These “strategic” working plans should be prepared such that information can be given during the different workshops planned by the TC. The fist of which is organized during Mairepav in Torino 8th..10th July.

Deadline for the strategic working plans of each WG: 30 April 2009

6. TC actions:

In the frame of the TC the following actions are planned

- Special is sue of RMPD with the 6 best papers of ISAP2008
- **Workshop Torino, Italy, July 10th 2009** (joint to Mairepav6) Advances on Recycling on Asphalt Pavement (WG1)
- **Workshop Qingdao, China, August 8th, 2009** (joint to 3rd Int Conf. on Asph. Mat)

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- Material characterization and field validation for predictions of the short- and long-term performance of various types of recycled materials
- **Workshop Fortaleza, Brazil, October 6th, 2009** (joint to Conf. of Brazilian Pav. Ass.)
Cold and warm asphalt mixture design/characterization and pavement concepts.
Identification of worldwide best practices
- **Nantes, France, November 2009** LCA software (WG3) (*more details will be communicated as soon as possible through the web page*)
- **Nottingham, UK, December 2009** New technologies in asphalt pavements (WG4) (*more details will be communicated as soon as possible through the web page*)

7. Web site

Gabriele Tebaldi illustrated the idea about the TC web page and the preliminary version actually on line.

8. Next meeting

The next meeting will be in January 2010 during the 89 TRB Annual meeting, the exact date will be announced as soon the ISAP secretariat will reserve a room in accord with TRB meeting Organization Committee.

The next meeting will be focused in the WG group activities reports and in the report of 2009 workshops and RMPD Special Issue

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ATTACHMENT C

PROPOSAL OF 2012 INTERMEDIATE ISAP SYMPOSIUM

**ISAP (Intermediate) International Conference 2012
in Fortaleza, Brazil**

Asphalt Pavements and Environment

Documents composed for ISAP Board Meeting
January, 11, 2010; 8:00...11:00AM
Omni Shoreham, Senate Room
Washington D.C.

By

Manfred, N. Partl

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1 Title

ASPHALT PAVEMENTS AND ENVIRONMENT

The following themes are suggested to be covered in the conference:

- Hot, cold and warm recycling of RAP
- By-products and secondary materials recycling in asphalt pavements
- Bio-asphalt
- Nano-modification of asphalt materials
- HS&E
- Bitumen fumes
- Life cycle for asphalt pavements - quantification and identification
- New technologies and special environmental aspects for asphalt pavements:
 - warm asphalt
 - noise reduction
 - environmentally sustainable new materials
 - solar energy capture
 - pollution absorbing materials

2 Proposal for Congress Logo

We will work on a logo maintaining the identity of the ISAP logo and including something related to the city of Fortaleza. The figure below is an hypothesis for a possible logo, but if you have other ideas they are more than welcome; the only requirements are the ISAP logo and some indications about the APE TC.



3 Proposed Date

Monday June 11th – Wednesday June 13th, 2012

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4 Location

City of Fortaleza, Brazil, one of the most important touristic destinations of the country, and South America. Fortaleza was selected to be one of the host cities for the World Cup 2014. To be decided whether at a Hotel or at the Convention Bureau in Fortaleza

5 Planning/Organization/Scientific Committee

Planning Committee

Tasks of the planning committee will be:

- Technical content
- Poster sessions
- Parallel sessions
- Composition of Scientific Committee
- Web site
- Conference proceedings/CD (the best paper will be published in a special issue of IJRMPD)
- Panel discussion

Conference Chairmen:

- Manfred N. Partl, EMPA
- Jorge Soares, UFC
- Gabriele Tebaldi, Un. Parma

Proposed members:

- Verônica Castelo Branco, UFC
- Leni Leite, Petrobras
- Laura Motta, COPPE/UFRJ

It is assumed that planning will be possible through e-mail contact. Travelling will not be necessary.

Organization Committee

This will be done locally by co-workers at LMP/UFC and partners. Tasks include plan social events and check for sponsors.

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Scientific Committee

Task of the scientific committee will be the review of the abstracts and papers. Potential members are members of ISAP and ISAP TC APE,, e.g.

- Verônica Castelo Branco, UFC
- Leni Leite, Petrobras
- Laura Motta, COPPE/UFRJ
- Gordon Airey
- Kim Jenkins
- Dallas Little
- Mihai Marasteanu
- Tom Scarpas
- Charles Schwartz
- Niki Kringos
-

...and members of RILEM ATB TG5 Recycling, e.g.

- Chantal De La Roche
- Hussein Al Khalid
- Bill Buttlar
- Martin Hugener
- Ilan Ishai
- Robert Karlsson
- Laurent Porot, Shell
- Marcello Luminari
- Jean-Pascal Planche,
- Sandor Toth
-

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6 Proposed Content of the Congress

Background

The environmental impact of traffic and infrastructure is becoming an increasingly important factor for the welfare and health of mankind and the biosphere in general as well as the social and economic development of our global society. Intensive research is going on worldwide to elaborate proposals for improvements and to provide a sound scientific basis for political decisions.

The ISAP 2008 Symposium on Asphalt Pavements and Environment in Zurich was very successful. Meanwhile much exciting new progress has been made worldwide and much development is also ongoing with respect to regions with high environmental potential, such as South America and Brasil in particular. This 2nd ISAP Symposium is devoted to the latest research results and positive contributions of asphalt pavement technology for a better environment.

Objective

The symposium addresses to students, researchers, practitioners and decision makers who have a need and interest to learn and discuss the state of the art as well as the latest environment-related developments and future ideas in asphalt pavement technology. The symposium intends to provide a platform for international networking, identification of synergies and coordinate research efforts. It will also form the basis for a possible formation of a new ISAP technical committee on that subject.

Topics

Remark: The proposed content is probably too wide and should be narrowed down by the planning committee. Papers are welcome on the following topics:

- Bio-asphalt
- Nano-modification of asphalt materials
- Life cycle for asphalt pavements - quantification and identification
- Low energy asphalt mix production and placing
- Emissions and working safety
- Noise reducing pavements
- Drainage and water susceptibility
- Environmentally sustainable new materials
- Perpetual recycling and material resources
- Durability and Aging
- Innovative design
- Roads for energy production
- Roads for environmentally friendly winter maintenance
- ...

Time Planning

The idea now is to have a draft to present at TRB 2010. A final proposal should be ready by mid-2010, to be presented in Nagoya (August, 2010).

For sponsorship, in Brazil, we have until mid-2011, since requests need to be done in the year before the event.

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