



ISAP - International Society for Asphalt Pavements
4711 Clark Avenue, Suite G, White Bear Lake, MN, USA 55110
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ISAP Technical Committee APE *Asphalt Pavements and Environment*

Subject: Minutes 3rd Annual Meeting of APE ISAP TC
January 23th 2011 during 90th 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 meeting the chairman made a brief welcome, made a quick presentation of meeting agenda and then asked for self-introductions. A total of 32 persons were attending the meeting. A list of attendees is provided in Attachment A.

A copy of the meeting agenda is provided in Attachment B.

2. Approval of last meeting minute

Manfred Partl illustrated the last year meeting minutes. The minutes were accepted. A copy of last year minutes is provided in Attachment C.

3. General review of last year activities.

Manfred Partl summarized the TC organization and showed the following last year TC activities:

- Regional Asian Workshop on Cold Recycling, 2010 October 9th, in Kuala Lumpur (Malaysia), organized by K. Jenkins (WG2) in cooperation with X. Jian, T. Svasdisant, M. Hizam bin Harun.
- Workshop on Cold Recycling, 2010 June 11th, in Parma (Italy) as EATA 2010 pre-conference event.
- WG1 and WG2 Meeting during EATA 2010 conference in Parma (Italy)
- International Workshop on Pavement Life Cycle Assessment (LCA) 2010 May 5th -7th, at UC@Davis, co-hosted by Caltrans & ITS UC-Berkeley and UC-Davis (ISAP APE was one collaborator)
- Two sponsored Session at ISAP Conference 2010 in Nagoya Japan
 - Sess.1A Sustainable Life Cycle of Asphalt Materials (Aug 2nd)
J. Voskuilen et al, New life for Porous Asphalt RAP in new Porous Asphalt
J. De Visscher et al, Asphalt Production at Reduced Temperatures and the Impact on Asphalt Performance
Ch. de La Roche, Results of interlaboratory tests on a laboratory bituminous mixtures ageing protocol
 - Sess. 2A Environmentally Active Multifunctional Pavements (Aug 2nd)
N. Inaba et al, Anti-Freezing Pavement Using Hot Rolled Asphalt Technology,
K. Takahashi et al, Road Temperature Mitigation Effect of Water Retentive Material

Gabriele Tebaldi, Secretary

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Using Blast Furnace Slag

X. Xie *et al*, Effects of the Asphalt Permeable Pavement on Highway Runoff

Presentation and update from workshops are posted on TC webpage [<http://www.ape-isap-tc.unipr.it>]

4. Planned actions in 2011

Manfred Partl made a brief description of following activities already planned for 2011:

- International workshop on LCA and Civil engineering, 2011 November in Nantes, organized by IFSTTAR (ex LCPC).
- International Workshop on Cold Recycling, during CAPSA 2011, September 11th – 14th, South Africa organized by Kim Jenkins and WG2.
- Organization of ISAP 2nd APE Symposium 2012, Fortaleza, October 3th – 5th.

5. Members situation

Gabriele Tebaldi talked about the membership situation. At that moment the list of members is not clear. In the next months the WG Chairmen will have to verify the list and produce reliable WG member lists. This will allow producing also a real TC active member list. The website at this moment is completely free and everything is available for everyone, in the future is planned to think about a private section available only for TC members (the website already has the capability to do that). End of March 2011 was decided as deadline for the member lists from WG chairmen. Manfred Partl remembered that ISAP membership is required.

6. Work Group activities

The WG chairmen made a presentation of WGs activities.

WG1. Peter Seebaly explained the strategic plan of this WG. The WG group was created last year and started the activities 7 months ago and bases his activities on FHWA Expert Task Group on RAP experience; the activities plan includes also a strong link with ETG. The WG activities will be focused mainly on “in plant” RAP recycling.

The WG will be involved in the 2nd International Warm-Mix Conference that will be held October 11-13, 2011 in St. Louis (more information are on website: <http://www.hotmix.org/warmmix>)

The WG will work in the organization of an International Conference on Recycling in Asphalt Pavement in 2013 (probably spring).

WG2. Kim Jenkins presented the 2010 activities and also some plans for next years. Two workshops were organized. The first workshop was held in Parma, before EATA 2010 Conference, focused on global prospective of cold recycling of pavements. The second Workshop was held in Malaysia and focused on Asian prospective of cold recycling. The presentation of both workshops will be posted on TC website.

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In Parma before EATA Conference also a WG meeting was held. During the meeting the WG strategic plan was defined. In particular it was decided to focus the area of interest on RAP recycling with emulsion and with foam bitumen. Thanks to the link with the new RILEM TC SIB on Testing and Characterization of Sustainable Innovative Bituminous Materials and Systems (the follow up TC of former RILEM TC 206 ATB on Advanced Testing of Bituminous Materials) it was possible to clearly define the action limits to avoid overlapping and to find the ways to cooperate and optimize the efforts. The two Groups will join the effort and will cooperate following the cooperation agreement between ISAP and RILEM.

The forthcoming WG efforts will be:

- a workshop at CAPSA 2011 – Sept 2011 in South Africa focused on:
 - progress in strategy focus areas
 - update on technology (global)
 - additional interest groups
- a Special Issue of the international journal RMPD and also a State of the Art on Cold Recycling, both planned to be published in time to be presented in Fortaleza Conference 2012 to provide an global overview on cold recycling activities.

Mike Southern (Eurobitume) suggested to put attention on the language homogenization: the use of “recycling” and “re-use” have to be clarified, each one univocally associated to one concept and correctly use to avoid problems and misunderstanding in the discussion among academia, private industries and government institutions and agencies. Working on a proposal for language homogenization in our TC could be a common task for our TC.

WG3. Kim Nik Santero made a presentation reassuming discussion and results presented on International Workshop on Pavement Life Cycle Assessment (LCA) held May 5th -7th 2010 at University of California at Davis.

A discussion about the topics presented by Nick Santero followed the presentation.

WG4. Gordon Airey explained the WG situation. The topic was originally too vague. Hence, an attempt was made to define some specific topics. Some proposals were noise, solar and energy capture, pollution absorption, but nothing was concretized. The new proposal could be to focus the WG activities on sustainable and/or environmentally friendly materials and techniques, possibly taking advantage from others WG activities; for example something that comes from RAP and shingle application, on synthetic binder, special products and so on. A new strategic plan will be prepared by the WG to be posted on website.

Ilan Ishai mentioned as example a new additive able to substitute the fibers on HMA and that is able to reduce energy consumption.

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WG5. Gerry Huber provided an overview on shingle technologies and shingle applications. Augusto Cannone Falchetto (University of Minnesota) made a presentation showing the results of a project on Recycling Asphalt Shingles in Asphalt Pavement, recently done at University of Minnesota. WG will prepare a strategic plan and action list to be posted on the website

WG6. Manfred Partl showed a presentation sent by WG 6 Chairman Darius Sybilski (he was unable to attend for visa problems). Strategic plan and next activities were explained. In particular for next year are planned:

- Up-to-date literature review, including development in standards and law regulations, based on international inquiry
- Workshop on by-products and secondary materials in asphalt pavements (date and venue are not yet decided)

7. Fortaleza 2012 2nd APE Intermediate ISAP Symposium

Gabriele Tebaldi made report on the organization works and showed the proposal made by the Conference chairmen to set the organization guidelines. Finally the following decisions had been taken.

- The Symposium will be held in combination with the South American conference “*Simpósio Internacional de Avaliação de Pavimentação e Projetos de Reforço – SINAPPRE*”. Jorge Soares is organizing that conference just before the APE Symposium.
- Conference Chairmen: Manfred Partl, Jorge Soares, Gabriele Tebaldi
- Advisory Committee: Peter Sebaaly, Kim Jenkins, John Harvey, Gordon Airey, Gerry Huber, Dariusz Sybilski, Jia Yu.
- The WG Chairmen will provide the names to create the Scientific Committee, try to have people from the maximum number of country that is possible.
- Organizing Committee: Jorge Soares will be the Chairman of the local organizing committee. He will find the members.
- Deadlines:
 - Abstract submission.....July 17th, 2011
 - Abstract acceptance.....September 4th, 2011
 - Full paper submission.....January 15th, 2011

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- Paper acceptanceApril 1st, 2012
- Final paper submission.....July 1st, 2012

- Conference topics:
 - Hot recycling of RAP
 - Cold recycling of RAP
 - Life cycle analysis
 - New technologies and special environmental aspects for asphalt pavements (warm asphalt, noise reduction, environmentally sustainable new materials, solar energy capture pollution absorbing materials,...)
 - Shingles recycling
 - By-products and secondary materials recycling in asphalt pavements

- In journal RMPD Special Issue for best papers. The best paper selected among the paper presented in the conference (plenary session and high level poster session) will be published in a special issue of RMPD (after an upgrade at journal paper level by the authors and after a second review process, following the journal's rules). The best papers will be selected by the Conference Chairmen and the ISAP TC APE WG Chairmen. Jorge Soares, Manfred Partl and Gabriele Tebaldi will be the Guest Editors.

- The conference will be composed by plenary sessions and two poster session: one High Level poster session with a chairman and with an introductory forum. This will include around 15 posters; those posters will have the same value as the presentations in the plenary session and the papers will have the same chance to be proposed for the resubmission for the RMPD special issue. The second poster session will be an open poster session mainly intended to promote local works and/or young researcher (this posters will be reviewed only by the local organizing committee and may be included in the proceedings, if the local organizing committee wishes to do so). The official language of the conference, including all the presentations and all the posters, must be in English.

- According to the ISAP Board decision, the conference will have two different registration fees: one for ISAP members and one for non ISAP members. The non ISAP members have to pay in addition the annual membership fee and are the ISAP member for one year.

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- Possible Conference schedule:

	Day1	Day2	Day3
8:30		Plenary	Plenary
10:30	Welcome + keynote	Forum	Plenary
12:30		Poster	
	Lunches	Poster	Poster
15:30	Plenary	Plenary	Plenary
17:30	Plenary	Plenary	Plenary
			Banquet

8. Next Meeting

The next meeting will be in January 2012 during the 91th TRB Annual meeting. The idea is to organize an ISAP day at TRB, in cooperation with the other ISAP TC. 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

<i>Name</i>	<i>Affiliation</i>	<i>E-mail</i>
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Kim Jenkins	University of Stellenbosh	kjenkins@sun.ac.za
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John D'Angelo	Consultant	johndangelo@dangeloconsultingllc.com

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ATTACHMENT B

MEETING AGENDA

Agenda ISAP TC APE Meeting

Sunday, January 23, 2011

2:00 ÷ 5:00 pm

Shoreham Hotel - Council Room

Washington D.C.

1. Welcome, Introduction, Call of Participants

2. Approval of last meeting minutes

3. General review of last year activities.

- Workshops
- Sponsored Conference Sessions

4. Members situation.

- Actual members
- Strategies to increase the members number.

5. AAPT International Forum

6. WG activities: last year activities report and next year plans

- WG 1 - Hot Recycling of RAP (Peter Sebaaly)
- WG 2 - Cold Recycling of RAP (Kim Jenkins)
- WG 3 - Life cycle analysis (John Harvey)
- WG 4 - New technologies and special environmental aspects for asphalt pavements (Gordon Airey)
- WG 5 - Shingle Recycling (Gerry Huber)
- WG 6 - By-products and Secondary Materials Recycling in Asphalt Pavements (Dariusz Sybilski)

7. Fortaleza 2012 Conference

- Sessions organization
- Steering committee
- Scientific committee
- Time planning

8. Next meeting.

9. Every other business

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ATTACHMENT C

LAST YEAR MEETING MINUTES

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

9. 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.

10. 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.

11. New web site

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

12. 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.

13. 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

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researchers. In force of the results was decided to organize another edition in the 2011. All the presentations are available on the IBDM website.

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.

14. 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

15. 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

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

16. 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).

17. 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.

18. 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.

19. 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.

20. 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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ISAP Technical Committee APE *Asphalt Pavements and Environment*

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**

Gabriele Tebaldi, Secretary

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