

Integration of Solid waste management Tools into specific settings of European and Asian Communities (ISTEAC)



Minutes of Quezon meeting (April 11 – 22, 2005)

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Location:

Miriam College (MC), AVR D.

Time:

- **Pre-meeting activities:** Sunday, April 8-10. Partners’ arrival at Quezon, preliminary contacts.
- **Day 1:** Monday, April 11: 08:00 – 18:30: Internal meeting.
- **Day 2:** Tuesday, April 12: 08:45 – 14:00: Workshop.
- **Day 3:** Wednesday, April 13: 1st teaching day.
- **Day 4:** Thursday, April 14: 2nd teaching day and field trip.
- **Day 5:** Friday, April 15: 3rd teaching day and field trip.
- **Day 6:** Saturday, April 16: Free.

- **Day 7:** Sunday, April 17: Free.
- **Day 8:** Monday, April 18: 4th teaching day - seminar.
- **Day 9:** Tuesday, April 19: Field trip.
- **Day 10:** Wednesday, April 20: 5th teaching day.
- **Day 11:** Thursday, April 21: Other ISTEAC issues.
- **Day 12:** Friday, April 22: Departure.

Attendance:

| | |
|------------------------------------|--|
| Dr. Angelina O. Galang | Miriam College (MC), The Philippines |
| Dr. Phares P. Parayno | MC, The Philippines |
| Tereza M. Oliva | MC, The Philippines |
| Assist. Prof. Avraam Karagiannidis | Aristotle University Thessaloniki (AUPh), Greece |
| Maria Theodoseli | AUPh, Greece |
| Eleni Trentsiou | AUPh, Greece |
| Jan Reichenbach | Dresden University of Technology (TUD), Germany |
| Prof. Nguyen thi Diem Trang | Hanoi University of Science (HUS), Vietnam |
| Vu Thi Mai Huong | HUS, Vietnam |
| Ma. Rita Bustamante | European Commission, Delegation to the Philippines |

1. Attendance and documents

The attendance at this mission was as planned with at least two representatives from each organization participating in the project taking part. The meeting followed and extensively built on the agenda, which had been determined, circulated and agreed among the project partners.

Mr. Alexander Janz, member of the German mission to the Philippines, finally did not attend the meeting because of health reasons. Due to an unexpected hurt, Mr. Alexander Janz cancelled his travel to the Philippines just before the scheduled departure. The reason of his absence was sudden illness and medical certificate is available if necessary. Mr. Janz had booked for travelling to Manila the cheapest booking class and this booking class is not being refunded in case of flight cancelling; it is only possible to make a new booking with additional costs of new booking: 100EUR + difference between flight costs and new flight costs (if the cheap booking class is sold out). During the internal meeting of the project, partners had a discussion on this issue and decided to propose Mr. Janz to visit the country during the AUNP meeting on August. If this proposition is approved from the EC, an additional internal meeting of the project will be possible to be organized then, since the Hellenic and the Vietnamese partner will attend the AUNP meeting in the Philippines and the Philipino partner will be available during that time.

The presentations made at the meeting are available. Reference to the presentation files and their content is made in the meeting notes following.

2. Meeting agenda

Day 1

| Date | What | Where | Who | |
|-----------|-------|--|---|--|
| 11 /04 AM | 8:15 | Beginning of the session | Miriam College, Environmental Studies Institute | Guided by Dr. Angelina P. Galang |
| | 8:15 | Welcoming address and organisation details | | Dr. Angelina P. Galang Dr. Phares P. Parayno Prof. Avraam Karagiannidis |
| | 8:30 | Approval of the agenda | | Prof. Avraam Karagiannidis |
| | 8:45 | Workpackage review and summary of accomplishments <ul style="list-style-type: none"> • Overview of ISTEAC and results from AUTH • Results from MC • Results from HUS • Results from TUD | | (15 min presentation each) AUTH MC HUS TUD |
| | 9:30 | Coffee break | | |
| | 10:00 | Discussion on the project's results | | All |
| | 11:30 | Lunch break | | |
| | 13:30 | Brainstorming session -Work Packages Future activities and project management issues <ul style="list-style-type: none"> • Website update and needs (sources) • Publications • Exploration of recycling potential and recycling schemes for paper in different settings. <i>Critical issues and proposals</i> | | All |
| | 15:00 | Coffee break | | |
| | 15:30 | Conclusions and workplan development | | All |
| | 16:30 | Other issues: <ul style="list-style-type: none"> • Internal evaluation • Website update • Financial issues | | |
| | 17:15 | Discussion and agreement on the objectives and schedule of the summit ISTEAC meeting in Germany | | |
| | 17:30 | End of session | | |
| | | Dinner (by ESI) | Dampa Sa Libis | All |

Day 2. Workshop with local stakeholders

| Date | Topic | Place | Personnel |
|-----------------------------|---|---------------------------------|---|
| April 12 Tuesday | | | |
| 9:00 | Visit to local authorities | DENR Main Office | Albert Magalang / Secretary Mike Defensor |
| 1:30 | Sanitary waste scheme in the MC campus (tour in the campus) | Miriam Campus | Ms. Tessa Oliva / Dr. Phares P. Parayno |
| 18:00 | Dinner with Miriam College President | Miriam College Mini Forest Area | Pinky Medina / Vene Rallonza (Miriam College External Affairs Office) |

Days 3 – 11: Teaching Mission and visits to local plants

| Date | Topic | Place | Teacher / Personnel |
|-------------------------------|---|--------------------------|---|
| April 13 Wednesday | | | |
| 8:00 | • Registration | MC AVR | ESI Staff |
| 9:00 | • Welcome Address | MC AVR | Dr. Angelina P. Galang |
| 9:10 | • Seminar Overview | MC AVR | Dr. Phares P. Parayno |
| 9:30 | • Overview of ISTEAC Project and waste management in Greece | MC AVR | Prof. Avraam Karagiannidis |
| 10:30 | • Coffee Break | AVR Lobby | |
| 10:45 | • Overview of waste management in the Philippines | MC AVR | Ms. Elizea Gozun, former DENR Secretary |
| 12:00 | • Lunch Break | Ladies' Court | Caterer |
| 13:30 | • Overview of waste management in Vietnam | MC AVR | Prof. Trang Nguyen thi Diem |
| 15:00 | • Coffee Break | AVR Lobby | |
| 15:30 | • Overview of waste management in Germany | MC AVR | Prof. Bernd Bilitewski / Mr. Alexander Janz |
| 17:00 | • End of Session | | |
| April 14 Thursday | | | |
| 8:00 | • Landfill – issues and technical requirements | MC AVR | Ms. Maria Theodoseli |
| 9:00 | • The example of Hanoi landfill / Organic composting in Hanoi | | Prof. Trang Nguyen thi Diem |
| 10:30 | • Coffee Break | AVR Lobby | |
| 10:45 | • Waste Characterisation Exercise | MC AVR | Mr. Alexander Janz (replaced by) |
| 12:00 | • Lunch Break | Ladies' Court | |
| 13:30 | • Economic/ Estimation Exercise (Theory and Hands-on) – PAYT | MC AVR | Prof. Bernd Bilitewski |
| 15:00 | • Coffee Break | AVR Lobby | |
| 15:30 | • Field Trip | Kilus Foundation (Pasig) | Ms. Tessa Oliva |
| April 15 Friday | | | |
| 8:00 | • Incentives for Sorting at Source | MC AVR | Mr. Jan Reichenbach |
| 9:00 | • Recycling – circular economy: collection of recyclable materials, options | MC AVR | Prof. Bernd Bilitewski |
| 10:30 | • Coffee Break | AVR Lobby | |
| 10:45 | • Recycling – circular economy: collection and processing of recyclable materials | MC AVR | Prof. Bernd Bilitewski |
| 12:00 | • Lunch Break | Ladies' Court | |

| | | | |
|--|--|---|---|
| 13:30 | <ul style="list-style-type: none"> Field trip (Ayala waste management project) | Makati City | Ms. Adel Licos of Ayala Foundation |
| 19:00 | <ul style="list-style-type: none"> Dinner | Sentro, Greenbelt 3 | ISTEAC delegates only with ESI staff |
| April 16 and 17 Saturday and Sunday | Recreational Trip | Taal Volcano, Tagaytay City | Ms. Vicky Segovia, Joan dela Cruz |
| April 18 Monday | | | |
| 8:00 | <ul style="list-style-type: none"> Seminar with decision makers, chief executives of local government units or their representatives (discussion should focus on decision surrounding the establishment of a Materials Recovery Facility as opposed to putting up a landfill) | MC AVR | Mr. Alexander Janz (replaced by Prof. Bernd Bilitewski) Reactor: Mayor of Batangas |
| 10:30 | <ul style="list-style-type: none"> Coffee Break | AVR Lobby | |
| 10:45 | <ul style="list-style-type: none"> Seminar (continued) | MC AVR | Mr. Alexander Janz |
| 12:00 | <ul style="list-style-type: none"> Lunch Break | Ladies' Court | |
| 13:30 | <ul style="list-style-type: none"> Managing Packaging Waste | MC AVR | Prof. Avraam Karagiannidis |
| 15:30 | <ul style="list-style-type: none"> Coffee Break | AVR Lobby | |
| 16:00 | <ul style="list-style-type: none"> Composting at La Vista Subdivision | La Vista Subdivision | Ms. Tessa Oliva / Dr. Galang |
| 18:00 | <ul style="list-style-type: none"> End of Session | | |
| 19:00 | <ul style="list-style-type: none"> Evening Socials | ESI Conference Rm | Eric, Alma, Kyla |
| April 19 Tuesday | | | |
| AM /PM | <ul style="list-style-type: none"> Payatas Field Trip Field trip to computer recycling (HMR) Composting in San Pedro | Payatas, Quezon City; HMR at Sta. Rosa, Laguna and Giron's composting | Celia Giron, Tessa Oliva |
| April 20 Wednesday | | | |
| 8:00 | <ul style="list-style-type: none"> Collection systems, transfer stations | MC AVR | Prof. Avraam Karagiannidis |
| 9:45 | <ul style="list-style-type: none"> Coffee Break | AVR lobby | |
| 10:00 | <ul style="list-style-type: none"> Sorting and composting technologies | MC AVR | Mr. Alexander Janz (replaced by Prof. Avraam Karagiannidis) |
| 12:00 | <ul style="list-style-type: none"> Lunch Break | Ladies' Court | |
| 13:00 | <ul style="list-style-type: none"> Various collection system : Green Dot System of Germany | MC AVR | Mr. Jan Reichenbach |
| 14:30 | <ul style="list-style-type: none"> Paper recycling | MV AVR | Mr. Jan Reichenbach |
| 15:30 | <ul style="list-style-type: none"> Coffee Break | AVR lobby | |
| 15:45 | <ul style="list-style-type: none"> Waste Remediation (technologies and various approaches) | MC AVR | Mr. Jan Reichenbach |
| 17:00 | <ul style="list-style-type: none"> Synthesis of the Workshop | MC AVR | Dr. Phares P. Parayno |
| 17:30 | <ul style="list-style-type: none"> Closing Ceremony | MC AVR | Ms. Vicky Segovia |
| April 21 Thursday | Conclusions - Further discussion and organisation details of the summit meeting in Dresden | MC AVR | ISTEAC participants |
| April 22 Friday | Departure | | |

3. Meeting notes

- **Day 1: Monday, April 11, 2005 – Internal meeting of the project**
 - 8:00-18:30 Internal meeting of the project.
 - 19:30-21:30 Dinner.
 - 22:00-23:00 Discussion on ISTEAC issues between members of the participants.
- **Day 2: Tuesday, April 12, 2005 – Workshop with local authorities**
 - 09:15 - 11:00 Visit of ISTEAC participants to the Department for Environment and Natural Resources (DENR). Short introduction from the meeting participants (DENR representative, DENR secretary, ISTEAC participants, lead of Barangays, lead of the provinces, NGO representative). DENR representative presented the Solid Waste Management (SWM) situation in the Philippines and then an extensive discussion followed on SWM issues. The main goals and achievements of DENR, as well as the main problems on the adaptation of the environmental policy in the Philippines were presented and further analysed. ISTEAC participants presented the main targets and activities of the project and the SWM situation in each participating country. Attendance: all.
 - 12:00 – 14:30 Lunch.
 - 15:00 – 18:30 ISTEAC participants returned to MC for the tour inside the campus concerning the management scheme for sanitary waste in MC. Colleagues from MC presented the composting activity organised under ISTEAC project from MC, as well as other SWM activities of the school. A discussion followed on the composting process, ways of improving the process, the product's quality and further ideas for continuation of this management scheme.

2nd Teaching mission of ISTEAC project

The 2nd teaching mission of the project, organized as a seminar in MC, was called “*Ecological Solid Waste Management: Scientific Implementation, Skills Training and Innovative Strategies*”. The participants attended the seminar were invited from MC and are members from:

- governmental agencies,
- local governmental units,
- non governmental organizations or private organizations,
- private corporation,
- academic institutions,
- students and MC staff.

The seminar lasted for 6 days (April 13-15 & 18-20, 2005) and the participants beside the teaching lessons, attended the field trips.

- **Day 3: Wednesday April 13, 2005 - 1st teaching day.**
 - 08:00 – 09:00 Registration of the participants.
 - 09:00 – 09:10 Welcome address from Dr. Angelina P. Galang.
 - 09:10 - 9:30 Seminar overview from Dr. Phares Parayno.
 - 9:30 – 10:30 Overview of ISTEAC project and Waste Management in Greece.
 - 10:30 – 10:45 Coffee break
 - 10:45 – 12:00 Overview of Waste management in the Philippines from Ms. Elisea Gozun, former DENR secretary.
 - 12:00 – 13:30 Lunch
 - 13:30 – 15:00 Overview of Waste Management in Vietnam from Prof. Trang Nguyen thi Diem.
 - 15:00 – 15:30 Coffee break.
 - 15:30 – 17:00 Overview of Waste Management in Germany from Prof. Bernd Bilitewski.

During the lectures and after the end of the teaching day, ISTEAC participants had several discussions on the socio-economic study. Project members discussed and agreed to prepare a new questionnaire for the socio-economic study for the seminar participants. This questionnaire will be also prepared for the other countries and will be filled in from SWM stakeholders.

• **Day 4: Thursday April 14, 2005 - 2nd teaching day and field trip.**

- 08:00 – 09:00 Landfill – Issues and general requirements from Ms. Maria Theodoseli.
- 09:00 – 10:00 The example of Hanoi landfill from Trang Nguyen thi Diem.
- 10:30 - 10:45 Coffee break.
- 10:45 – 12:00 Waste characterization exercise from Prof. Bernd Bilitewski.
- 12:00 – 13:30 Lunch break.
- 13:30 – 15:00 Economic Estimate Exercise from Prof. Bernd Bilitewski.
- 15:00 – 15:30 Coffee break.
- 15:30 – 18:00 Field trip to KILUS foundation. This programme includes the collection and reuse of tetra pak material from juices. The reuse process was presented to the participants including: collection and transfer to the area, temporary storage, washing and drying of the tetra pak material, further sorting process according to the colors of the materials and reuse (producing bags, shoes, hats etc.).

During the day ISTEAC participants made some preparatory work on the socio-economic study and the questionnaire. Several ideas were discussed on the content and format of the questionnaire, as well as a draft document was prepared for further discussion among the partners.

• **Day 5: Friday April 15 – 2005 – 3rd teaching day and field trip.**

- 08:00 – 10:30 Recycling and Circular Economy: Collection of recyclable materials from Prof. Bernd Bilitewski.
- 10:30 - 10:45 Coffee break.
- 10:45 – 12:00 Incentives for Sorting at Source from Mr. Jan Reichenbach.
- 12:00 – 13:30 Lunch break.
- 13:30 – 15:30 Video tape presentation of PAYT from the USA.
- 15:30 – 18:00 Field trip to Ayala Waste Management Project. The participants visited two facilities of the Ayala Property Management Corporation. The first one is the food court of Shoe Mart Mall, where the food waste segregation is being practiced. The second is the materials recovery facility. The wastes delivered there are mostly residuals, but secondary segregation still takes place. Wastes come from various restaurants and facilities operated by Ayala Property.

• **Day 6: Saturday April 16, 2005, Free.**

• **Day 7: Sunday April 17, 2005, Free.**

• **Day 8: Monday April 18, 2005 – 4th teaching day and seminar.**

- 08:00 – 10:30 Seminar with Decision Makers, Prof. Bernd Bilitewski.
- 10:30 - 10:45 Coffee break.
- 10:45 – 12:00 Seminar (continued), Prof. Bernd Bilitewski.
- 12:00 – 13:30 Lunch break.
- 13:30 – 15:30 Managing Packaging Wastes, Prof. Avraam Karagiannidis.
- 15:30 – 16:00 Coffee Break
- 16:00 – 18:00 Field trip to the Composting at La Vista Subdivision. The ISTEAC participants visited the composting project of La Vista Subdivision, a residential area beside Miriam College. The group went to the Ecology Center of the subdivision where the composting facility is placed. Overseeing the program is the head of the environment committee of the homeowners' association. Kitchen wastes are collected everyday, mixed with garden wastes and grass clippings. The mixture is then shredded and sprayed with inoculants and appropriate amount of moisture. The mixture is placed on the composting compartments of the Ecology Centre.

- 19:00 Evening Socials

In the evening the participants gathered in the conference centre of the Environmental Studies Institute of MC for light evening meals and conversation with the resource speakers.

- **Day 9: Tuesday April 19, 2005 - Field trip.**

- 00:00 – 00:00 Payatas Field trip.
- 00:00 - 00:00 Field trip to the Computer Recycling centre.
- 00:00 – 00:00 Composting in San Pedro, Laguna.

The ISTEAC participants visited: (1) Payatas dumpsite in Quezon City; (2) Computer recycling facility in Sta. Rosa, Laguna; and (3) Composting facility in San Pedro, Laguna.

In Payatas, the group met with Fr. Aldrin Suan and Colonel Jaymalin. Fr. Suan, a Vincentian priest, oversees the development program that watches over the health and well-being of the waste pickers. Colonel Jaymalin discussed the rehabilitation of the dumpsite and its conversion as a facility to collect methane and convert to power.

The group then travelled to Sta. Rosa, about 40 kilometres south of Metro Manila, the visit provides its clients a “one stop shop” for their unwanted materials, be they scrap, obsolete, or redundant materials. The group was shown the dismantling and crushing of a cathode ray tube, using an enclosed equipment to capture hazardous and toxic materials.

The participants proceeded in a nearby town to a composting facility managed by Ms. Celia Giron. Ms. Giron collects kitchen wastes everyday from selected residential areas in Makati and other parts of Metro Manila. The homeowners’ association pays her to collect and haul kitchen wastes. The kitchen wastes are then mixed with coconut coir dust and then poured into the rotating drum and allowed to decompose for several days before transferring them to sacks for further decomposition of the degrading wastes. The composts are then sieved and packed in sacks for sale to various landscaping business owners.

- **Day 10: Wednesday April 20, 2005 - 5th teaching day.**

- 08:00 – 10:00 Collection Systems and Transfer Stations from Prof. Avraam Karagiannidis.
- 10:00 - 10:15 Coffee break.
- 10:15 – 12:00 Sorting and Composting Technologies from Prof. Avraam Karagiannidis.
- 12:00 – 13:00 Lunch break.
- 13:00 – 14:30 Collection System: The Case of Green Dot System of Germany from Mr. Jan Reichenbach.
- 14:30 – 15:30 Paper Recycling from Mr. Jan Reichenbach.
- 15:30 – 17:00 Coffee Break.
- 17:00 – 17:30 Synthesis of Workshop, Dr. Phares Parayno.
- 17:30 Closing Ceremony, Ms. Vicky Segovia. At the end of the seminar, Ms. Vick Segovia of ESI led the closing ceremony where the resource speakers were asked to give a short message. One participant, Mr. Alan, was asked to give response on behalf of the participants. Then the certificates of attendance and participation were distributed to the participants.

- **Day 11: Thursday April 21, 2005 – Closing meeting among project participants.**

This meeting was organized among the partners for finalizing issues concerning this mission and the project. Financial obligations from the partners were discussed and requested documents were collected from the co-ordinator. A discussion on the next payment, which was approved just before this meeting and left the EC bank account on April 6, 2005, took place and directions were given to the partners concerning lessons learned from the already submitted report. The summit

meeting in Dresden was another issue for discussion. The German participant made suggestions on the facilities that ISTEAC participants could visit during this mission and from the other side the participants expressed their interested for this mission. Finally, the socio-economic study was finalized and directions were given to partners for the continuation of the activity and the assessment of the findings.

- **Day 12: Friday April 22, 2005 - Departure.**

4. Detailed summary of the activities at the internal workshop

These meeting minutes record the main points raised in each part of the meeting. Action points are noted in bold. Reference is made to the presentations made in the meeting.

| | |
|---|---|
| Monday, September 20th | |
| #1 Welcome address | Dr. Angelina Galang Dr. Phares Parayno Assist. Prof. Avraam Karagiannidis |
| #2 Short introduction of the meeting participants | All |
| #3 Short introduction of the representative from the EC Delegation to the Philippines | Mrs. Rita Bustamante |
| #4 Review and Approval of the Agenda | Assist. Prof. Avraam Karagiannidis |
| #5 Work package review and summary of accomplishments. See file: ISTEAC-activities-Quezon.ppt AUNP meeting.ppt | Assist. Prof. Avraam Karagiannidis |

Main points:

- Participants from each institute and the representative from the EC Delegation to the Philippines. Mrs. Rita Bustamante, introduced themselves and mentioned their contribution to the project.
- The presentation of Assist. Professor Mr. Avraam Karagiannidis focused on the activities of the project, implemented during the covered period from Hanoi meeting until the meeting in the Philippines.
- First, a short summary and the main activities of the project were presented. A presentation of each activity followed in order to have an overview of the project's progress during the period covered. Then a summary of the reporting activities was presented to the participants, as well as details of the 2 monitoring missions organized in Vietnam and Greece and the main points of the monitoring report. The project obligations according to the 1st Interim's report evaluation and the monitoring report were pointed out by the scientific co-ordinator and a short discussion followed.
- The 2nd part of the presentation included a summary of the results from the AUNP's research contribution during the implemented period. Detailed results on the planning of the composting schemes for small and/or rural communities in Greece were presented as well (Activity 9 – Annex I of Grant Contract).
- Finally Mr. Karagiannidis presented to the project participants information on the future event organized by the EC, in the Philippines, for the AUNP projects. In view of improving exchange and co-operation among AUNP stakeholders, AUNP-PMO will conduct a survey on the ongoing partnership projects. The main objective of the survey is to learn more about the projects, with the

aim to identify and summarize the initial lessons learnt and best practices, which could benefit all the ongoing projects, and help to improve and enhance other ongoing and future EC partnership programmes in Southeast Asia and beyond. For this reason a meeting will be organised in Manila at the end of August, 2005 and from each project; a European and an Asian member are invited to attend the meeting. After discussion between the partners it was proposed and agreed, the scientific co-ordinator Mr. Karagiannidis from AUTH, Greece and Mrs. Trang Nguyen Thi Diem from HUS, Vietnam to visit the Philippines during August. This meeting for AUNP projects will give ISTEAC partners the chance to have an additional internal meeting on August, since the other Asian colleague of the project is located in Manila. Mr. Janz could also attend this meeting, with the approval of the EC, since his flight is transferred for that period.

Short coffee break.

#6 Presentation of the Miriam College contribution to the activities of the project. See file:

Composting Nappies at Miriam College.ppt

Dr. Phares Parayno

- The presentation focused on the results of the management scheme for sanitary napkins in MC. Information about the estimated and actual generation in MC, the initial information campaign, the collection process and the appropriate method to compost the napkins presented. Results including C/N ratio, pH and temperature values were also presented and further dissemination activities and ideas discussed. From the experiments it was found that shredded napkins using rotating drums have better decomposition results and better compost quality. MC has already incorporated the proposed management scheme, under this project, as permanent activity of the school's SWM programme. The whole process and the activity's results will be disseminated by Miriam College further outside college, to other all-girl schools and to bigger unions.
- Mrs. Rita Bustamante also stressed the need for disseminating the activity's results further outside the college.
- A short discussion also took place concerning options for improving the composting process and producing compost with better quality.

#7 Presentation of the Hanoi University's of Science contribution to the activities of the project. See file:

HUS contribution.ppt

Prof. Trang Nguyen Thi Diem

Main points:

- Prof. Trang Nguyen Thi Diem presented a summary of the activities that HUS was involved in from the beginning of the project. Particular emphasis was given to the composting activity's (Activity 9, Annex I Grand Contract) implementation. The design of the composting pile (roll-up system), its installation and operation presented. HUS organized experiments both in a stationary unit with air supply, as well as the rollup system. It was found that the roll-up system had faster decomposition process. Data from the selected communities for the system's application were also presented.
- HUS also expressed the intention to continue working on this activity in order to improve the composting process and produce better compost quality.

#8 Presentation of Dresden University of Technology concerning the institute's contribution to the activities of the project. See files:

Accomplishment overview.ppt

Mr. Jan Reichenbach

Main points:

Quezon meeting minutes

- Mr. Reichenbach presented the TUD's contribution to the activities of the project. During the period from Hanoi meeting and the current meeting in Quezon city, TUD was involved in updating the project's website, in the socio-economic study and has also made initial work for the future research activity of paper recycling. It was agreed to upload the technical part of the 1st Interim Report to the public part of the project's website. A short discussion also took place concerning the website and ways to become more attractive. Pictures from the project activities and from the mission in the Philippines will be also uploaded.
- Concerning the paper recycling activity Mr. Reichenbach presented data from Germany including a mass flow chart on paper quantities. Participants were suggested try to work out more simplified versions of this flow for other countries. An overview of paper quantities, collection and recovery routes, the recycling potential are the main directions given for the activity's implementation.

Lunch break.

#9 Comments from Mrs. Rita Bustamante, representative from the EC Delegation in the Philippines.

- Mrs. Rita Bustamante stressed MC to continue the collaboration with other Philipino partners, such as schools and public or private units and also to disseminate the project results. She also noticed that ISTEAC has received good comments from the Monitoring Report and then wished for a successful continuation of the project meeting.

#10 Brainstorming session – Work Packages. Presentation concerning the future activities of the project. See file:

ISTEAC future activities-Quezon.ppt

Mrs. Maria Theodoseli

A presentation of each future activity followed and an extensive discussion took place on the way of each activity's implementation.

- Concerning the 2 extended activities 4 and 9 (case of Vietnam):
 - HUS has already completed the composting activity for selected communities in Vietnam under activity 9 of the project, but will continue working on this direction in order to improve the compost quality and make the proposed system sustain. HUS will organize more experiments using the proposed roll-up system and will assess its product quality. An additional report will be also presented for the project including results from the above mentioned experiments.
 - MC will send an additional report (including final results from the management scheme for sanitary waste in the school) and will also continue to work on the quality assessment of the proposed scheme, since it has become part of the permanent SWM activities of the school.
- Concerning the **publications on the findings** of the extended activities (4 and 9), partners discussed possible conferences and magazines for paper submission. Until this meeting many presentation have been made from the partners in several international conferences. Asian partners submitted abstracts at the International Landfill and Waste Management Symposium in Sardinia (4th - 7th October '05) but due to the extremely high costs, their participation was cancelled.
- The dissemination activities were presented to the participants and it was also discussed and agreed to further submit abstracts for presentations to the following possible conferences:
 - *12th International Symposium on Toxicity Assessment (ISTA12), Skiathos island, Greece, 12-17 June, 2005.* Two abstracts will be submitted until 30/04/2005 for the composting activities in Greece and Vietnam as well as the management scheme for sanitary waste in the Philippines.
 - *Workshop in Waste Management and Contaminated Site Treatment, Hanoi, Vietnam.* HUS will also present the results of the activity 9 at this workshop.
 - TUD will have a poster presentation on the project's activities during the 10th years anniversary of the Dresden University of Technology, Dresden, Germany, September.

The presentation and discussion on the **activities of the 2nd year of the project** continued.

- Concerning the **3rd main research activity** of the project, that is **the study of local cultural and socio-economic features that influence the structure of SWM in different settings**: Partners had an extensive discussion on the content of the matrix, which was prepared and proposed for this activity. Due to the difficulties on using the matrix it was decided to reconsider and revise this tool. An extensive discussion took place on the parameters affecting the transferability of the SWM technologies implemented in Europe to Asian countries, as well as on the technologies that could be transferred to these countries. It was decided to prepare a simplest questionnaire, including factors affecting the transferability of the technologies and the technologies to be transferred. For this reason all partners agreed to work together during this mission in order to prepare the new questionnaire. It was also decided to use this questionnaire during the seminar (organised on 18/04/2005) and ask the participants to fill it in. During this seminar, beside the participants from the teaching mission, many other members involved in SWM were also invited. This group of guest was considered the target group for using this questionnaire (see attached file of seminar participants).
- About the **4th main research activity** of the project, that is the **exploration of recycling potential and recycling schemes for paper in different settings** a discussion took place on the organisation of this activity during the presentation by Mr. Reichenbach.
- **The Summit meeting was decided to take place on November 1-7, 2005 at Dresden, Germany.**
- Concerning the teaching mission in Quezon city, some changes were incorporated in the proposed agenda, specifically concerning the absence of Mr. Alexander Janz from the lectures. Prof. Bilitewski from TUD and Assist. Prof. Karagiannidis from AUTH agreed to cover these lectures and the new schedule of the teaching mission was finalized during this meeting.
- It was suggested by the project leader and agreed by all that a further **meeting** between the project partners after the end of the teaching mission.

#11 End of the meeting

Assist Prof. Avraam Karagiannidis

5. Table of Tasks and Responsibilities during the 2st year of the project

The following table presents the timetable of the project's activities during the second year according to the 2nd Action Plan.

| Activities n° and Title | Period covered in month | | | | | | | | | | | |
|--|-------------------------|---|---|---|---|---|---|---|---|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Activity 4 (Planning of management scheme for sanitary napkins in MC) | | | | | | | | | | | | |
| Activity 4c: (Experiment on treating sanitary waste) | ■ | | | | | | | | | | | |
| Activity 4d: (Evaluation of experiment results) | ■ | ■ | | | | | | | | | | |
| Activity 4e: (Dissemination of results within the school) | | | ■ | | | | | | | | | |
| Activity 4f: (Formulation of management plan for sanitary waste) | | | ■ | | | | | | | | | |
| Activity 9 (Planning of composting schemes for small and/or rural communities (in Vietnam)) | ■ | ■ | ■ | | | | | | | | | |
| Activity 12 (Preparation of publications on findings from research on composting activities in the Philippines, Greece and Vietnam) | | | | ■ | ■ | | | | | | | |
| Activity 15 (Internal evaluation) | ■ | | | | | | | | | | | |
| Activity 16 (Study of local cultural and socio-economic features that influence the structure of SWM in different settings) | ■ | ■ | ■ | ■ | ■ | | | | | | | |
| Activity 17 (Workshop in Quezon City, the Philippines) | | | | | ■ | | | | | | | |
| Activity 18 (Teaching mission in Quezon City, the Philippines) | | | | | ■ | | | | | | | |
| Activity 19 (Preparation of publication on the findings of the socio-economic study) | | | | | | | ■ | | | | | |
| Activity 20 (Preparation of consolidated reports on the findings of the socio-economic study) | | | | | | | ■ | | | | | |
| Activity 21 (Project website update) | | | | | | | ■ | | | | | |
| Activity 22 (Internal evaluation) | | | | | | | ■ | | | | | |
| Activity 23 (Exploration of paper recycling potential schemes in different settings) | | | | | | | ■ | ■ | ■ | ■ | ■ | |
| Activity 24 (Preparation of publication on the research findings on recycling industry and schemes) | | | | | | | | | | | ■ | |
| Activity 25 (Summit meeting) | | | | | | | | | | ■ | | |
| Activity 26 (Project website update) | | | | | | | | | | | | ■ |
| Activity 27 (Internal evaluation) | | | | | | | | | | | | ■ |

6. Contact List

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7. Acronyms

| | |
|----------|---|
| AUNP-PMO | ASEAN-EU University Network Programme - Programme Management Office |
| AUTH | Aristotle University of Thessaloniki |
| BSCW | Basic Support for Cooperative Work |
| DENR | Department of Environment and Natural Resources |
| ESI | Environmental Studies Institute |
| HUS | Hanoi University of Science |
| MC | Miriam College |
| SWM | Solid Waste Management |
| TUD | Dresden University of Technology |