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Europe

Capacity Building in Environment and Health (CBEH) project

Report of the international training workshop on CBEH

19–23 March 2012 Riga, Latvia



Report of the international training workshop on CBEH

19–23 March 2012 Riga, Latvia



Abstract

More and more, countries are faced with the challenge of addressing the burden of disease arising from environmental exposures. Capacity building in environment and health has been recognized as a critical need among Member States of the WHO European Region, and the European Commission. This report gives an overview on one of the main activities of a capacity building in environment and health (CBEH) project, co-funded by the European Commission, DG Sanco: the international training workshop held 19–23 March 2012 in Riga, Latvia. It summarizes the main activities of the workshop and its final evaluation. The structure of the workshop with key lectures combined with in-depth modules proved effective, for relatively junior professionals as well as for participants with many years of experience in the area of environment and health. For future events it should be considered to provide a similar training to less experienced environment and health professionals, as also the more in-depth modules could only present an introduction into their specific thematic area and in addition to develop an advanced international training workshop with less thematic areas but more in-depth training and a focus on practical applications.

Keywords

Capacity building — Environment and Public Health — Environmental health —
Outcome assessment (Health care) — Public health

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List of abbreviations

CBEH	capacity building in environment and health
DG Sanco	EC Directorate General for Health and Consumers
EBoD	environmental burden of disease
EC	European Commission
EH	environment and health
EIA	environmental impact assessment
EU	European Union
IA	impact assessment
HIA	health impact assessment
QRA	quantitative risk assessment
SEA	strategic environmental assessment
WHO	World Health Organization

Background of the training workshop

Many European countries face great challenges in environment and health. The World Health Organization (WHO) estimates that in the WHO European Region well-tested environment and health (EH) interventions could reduce mortality by almost 20%. While rapid social and economic evolution, coupled with a legacy of environmental degradation (and its interplay with other significant health determinants) result in potentially large health impacts, current and/or projected, there is also great potential for health gains, if environmental determinants are addressed.

In line with recent orientations in environmental health, as reflected, for example, in the Fifth Ministerial Conference on Environment and Health, the European Centre for Environment and Health of the WHO Regional Office for Europe, has been running the project “Capacity building in Environment and Health (CBEH)”, co-funded by the European Commission (EC), Directorate General for Health and Consumers (EC DG Sanco). The overall objective of the project was to strengthen in-country capacity in several European Member States to deal with environment and health issues. Eight European Union (EU) Member States participated in the project: Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Slovakia and Slovenia.

The international training workshop on environment and health

Different activities were carried out to achieve the overall objective of the project: preparatory workshops with EH experts of the participating Member States, an international training workshop, and specific follow-up workshops.

In preparation of the international training workshop two preparatory workshops were conducted in the two subregions of the project: 11–13 October 2011 in Tallinn, Estonia, and 28–29 October 2011 in Budapest, Hungary. Aim of the preparatory workshops was to identify common areas of concern in the realm of EH as well as common capacity needs. The discussion identified the following prevailing areas of concern:

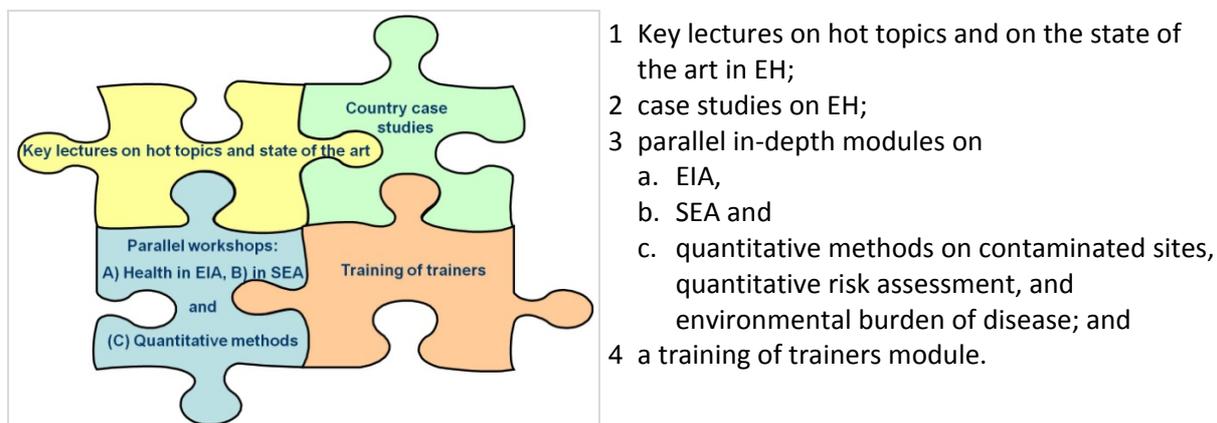
- a lack of intersectoral collaboration;
- insufficient implementation and evaluation of risk assessment methodology;
- limited implementation of health impact assessment (HIA) and health in environmental assessments like environmental impact assessments (EIA) and strategic environmental assessments (SEA);
- problems with water quality, especially in rural areas;
- difficulties with air quality, especially in larger cities;
- need of pollution prevention strategies, treatment of hazardous waste and contaminated sites; and
- lacking consideration of health effects of the energy policies/projects and extraction industry.

Additionally common needs for further capacity building activities were identified on

- how to use existing data for EH interpretation, e.g. through
 - linking environmental data with health effects;
 - linking this data further with socioeconomic data;

- how to integrate health issues better in environmental assessments like EIA and SEA (training programs, trainers, methodologies, guidelines);
- how to increase the capacity on risk assessment methodology, e.g. for small area geographical assessments;
- how to increase the knowledge of policy analysis, tools and methods for priority settings; and
- how to increase the knowledge of risk communication and interaction with stakeholders.

Informed by the preparatory workshop the concept of the main training event, a five-days international training workshop on EH was developed. While the first intention was to have two separate training events, one per subregion, participants of the preparatory workshops expressed the view that one single main training event for all participating countries would be preferable to holding two of them. Aims of this international training event would be to provide new insights on EH key topics, offer in depth training options on specific areas in EH, to provide opportunities for networking among participants of different sectors and countries, and to promote further dissemination of good EH practice in the countries. Hence the workshop was structured by four main components (see Figure 1):



- 1 Key lectures on hot topics and on the state of the art in EH;
- 2 case studies on EH;
- 3 parallel in-depth modules on
 - a. EIA,
 - b. SEA and
 - c. quantitative methods on contaminated sites, quantitative risk assessment, and environmental burden of disease; and
- 4 a training of trainers module.

Figure 1. Main elements of the CBEH international training workshop

The Riga workshop

The CBEH workshop was held in Riga, Latvia, from 19 to 23 March 2012. A total of 70 representatives of the environment and the health sector from the eight Member States participated in the training (see Annex 2, final list of participants). The biggest delegation was sent by the host country Latvia with a total of 12 participants, six of them working in the environmental sector, five in the health sector and one working the EH field (see Figure 2).

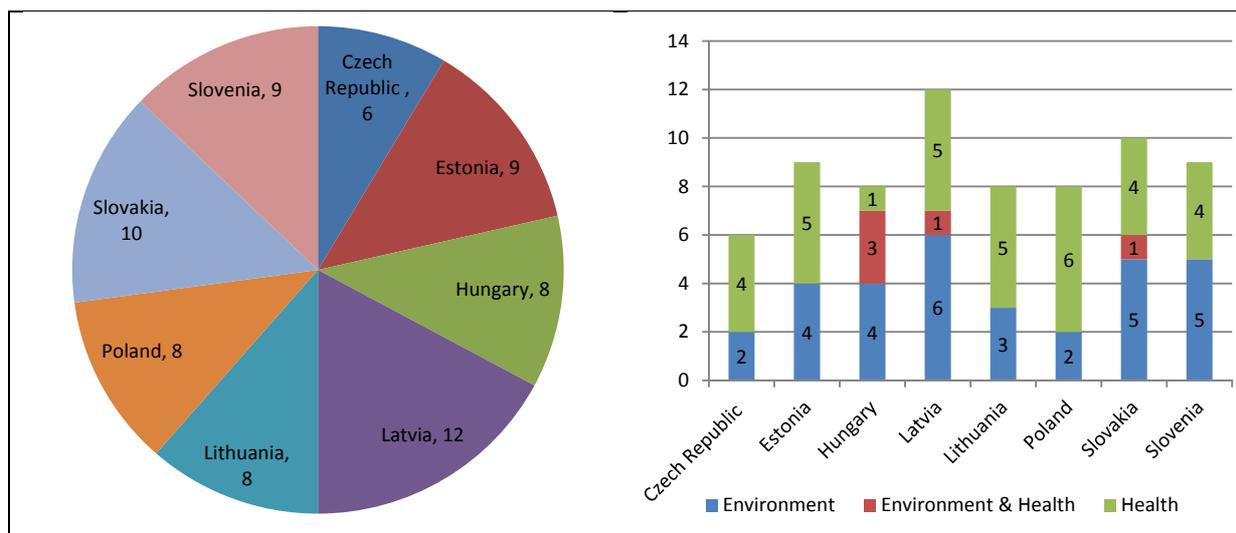


Figure 2. Number of participants by Member State (left) and main area of work (right), total n=70

Before the course started participants were asked to rate their working experiences in the different areas of the parallel modules on a scale ranging from “5 - working in this area daily” to “1 - having no working experience at all in this area” (see Figure 3). The majority of the participants claimed to have at least some experience if not daily experience (categories 3, 4 and 5) in HIA (n=37), EIA (n=43) and quantitative risk assessment (QRA) methods (n=47). Only a limited number of participants had regular working experience (categories 4 and 5) in the calculation of environmental burden of disease (EBoD) (n=9), and the vast majority, more than 75%, had no or limited working experience (categories 1 and 2) with energy projects or energy policies (n=53). Furthermore over half of the participants had no or limited working experience (categories 1 and 2) in SEA (n=41), or with quantitative methods for industrial contaminated sites (n=40). 36% of the participants (n=25) had at least some experience (categories 3, 4 and 5) in conducting trainings.

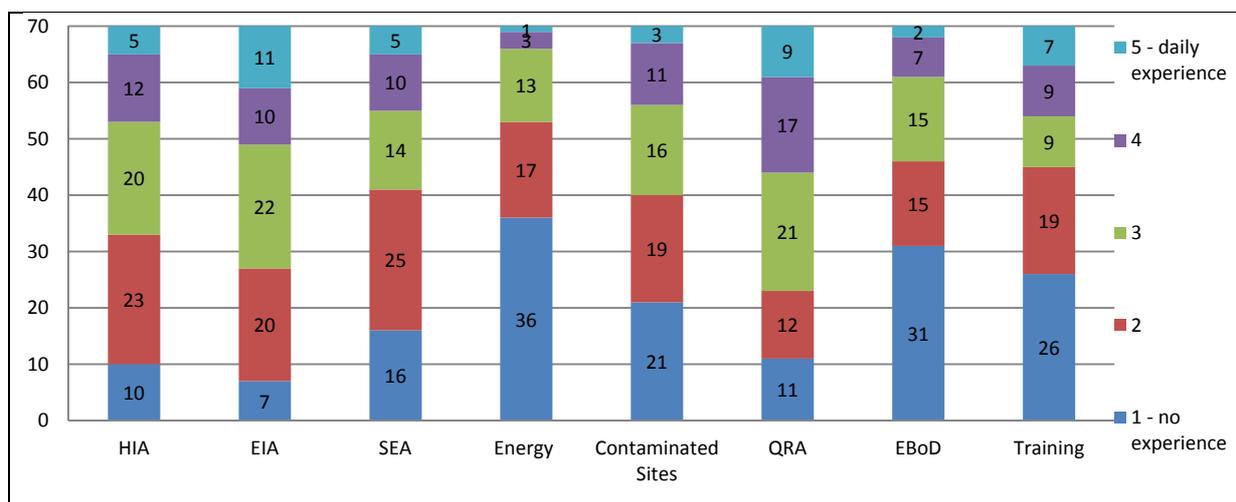


Figure 3. Working experience of participants by area and number on a scale rating from “5 - daily experience” to “1 - no experiences”; total of participants n=70.

Before the course participants were given access to an online database to download background information on the training week, and to familiarize themselves with further background materials of the parallel modules.

The first day and the morning of the following days consisted of key lectures delivered in plenary by international experts of the specific area introducing the field of EH in Europe, as well as on hot topics and lectures on state of the art in EH (see also Annex 1 for the final programme):

- the European Environment and Health Process – an international policy platform to support national actions;
- European Environment Agency's work in EH;
- views from the ERA ENVHEALTH consortium¹;
- recent developments in EH research;
- recent developments in HIA;
- forms of impact assessment (IA);
- assessing health impacts of air pollution;
- energy policies and health;
- nanotechnology and health;
- water and sanitation ;
- environmental inequalities and health; and
- risk communication and communication uncertainties.

Additionally, in the morning and late afternoon time slots delegates of the participating Member States presented case studies of their areas of work:

- Czech Republic: flash floods in the Liberec region from the point of view of public health authority;
- Estonia: risk assessment of waste burning in Kunda town;
- Hungary: aspects of health risk assessment of red sludge catastrophe (contaminated sites) and health impacts of climate change: Lyme disease, allergenic pollen as indicators (climate changes) ;
- Latvia: the new public health strategy 2012–20 ;
- Lithuania: the case of wind farm HIA;
- Poland: electromagnetic fields;
- Slovakia: the implementation of HIA in Slovakia ; and
- Slovenia: air pollution and strategic environmental health impact assessment.

On the second, third and fourth day participants split into three parallel groups with a maximum of 24 participant and followed in-depth trainings, on one of three topics:

1. health in EIA of energy projects,
2. health in SEA of energy policies, or
3. quantitative methods in the area of environmental health presented in one day workshops on
 - a small scale area approach for contaminated sites,
 - quantitative risk assessment methods, and
 - the calculation of the environmental burden of disease.

The last day was mainly dedicated to an introductory course on training methods to reflect in two parallel groups the different training methods experienced during the week and give information on what should be considered when planning training workshops. The aim of this special component was to enhance further training in EH in the participating countries.

¹ The ERA-ENVHEALTH project (2008-2012) was co-funded by the European Commission with the aim of providing policy support for the implementation of the Environment and Health Action Plan (2004-2010) and other EU policies concerned with EH.

Training materials for the parallel workshops as well as for the training of trainers’ component were specifically developed for the training. They have been reviewed after the training week by their authors and are published separately in a training manual to serve as a model for future training workshops in EH.

To facilitate further networking between participants of different sectors and/or different countries, the aim was to assemble in each of the parallel workshops groups from each Member State experts of the health and experts of the environmental sectors. Additional networking possibilities were provided during the lunch and coffee breaks and completed by two social events at the first and last evening of the training week.

Results of the training workshop

Starting from day two, participants were asked to fill out each day a questionnaire on the training day and a final questionnaire on the last day (see Annex 3) to allow reviewing the overall concept as well as the in-depth modules and to draw conclusion on further steps in the overall CBEH project. Out of the 70 participants of the workshop an average of n=54 (77%) participated in the daily and final evaluations: Tuesday n=56 (80%), Wednesday n=52 (84%), Thursday n=54 (77%) and Friday n=54 (77%) (see Table 1).

Day of the evaluation and overall evaluation	response	missing response
Tuesday, 20-Mar-2012	56	14
Wednesday, 21-Mar-2012	52	18
Thursday, 22-Mar-2012	54	16
Friday, 23-Mar-2012	54	16
Overall evaluation	54	16
Average	54	16

Table 1. Number of responding and non-responding participants by day of evaluation and overall evaluation

The overall evaluation of the three parallel modules shows an agreement of the majority of participants that the modules were relevant to their vocational/professional needs (see Figure 4).

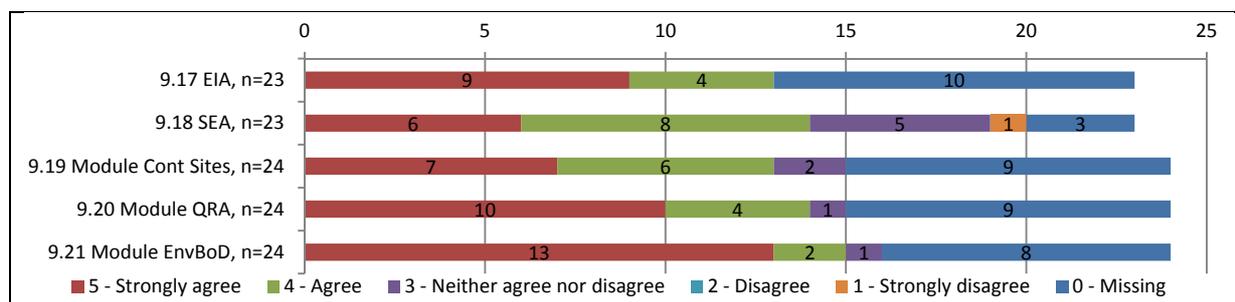


Figure 4. Participants agreeing or not agreeing to statement on the relevance of the module for their vocational/professional needs, by number and kind of agreement per module.

The daily evaluation presents a more detailed picture as especially participants of the module on SEA began to connect the content of the module more strongly to their professional needs on the last day of the training (see Figure 5).

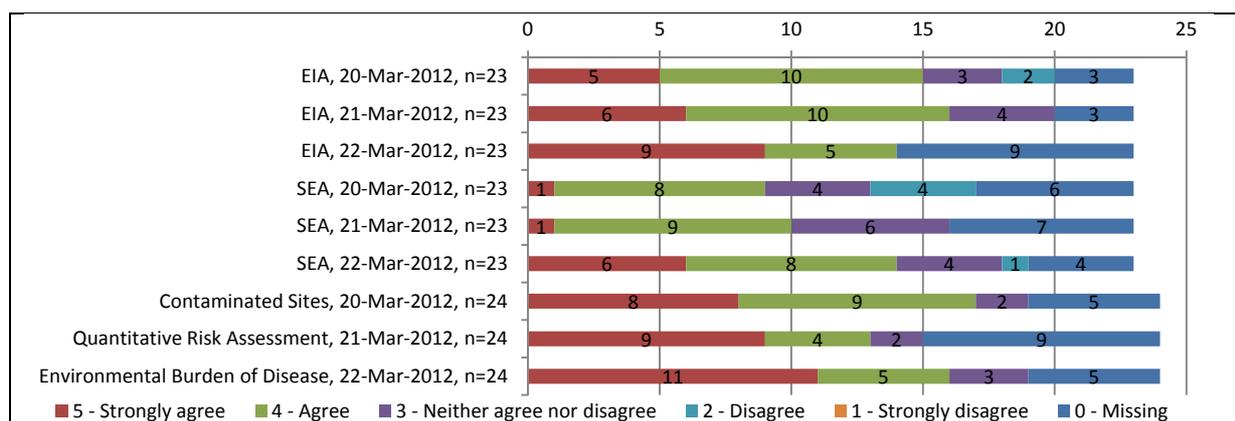


Figure 5. Participants agreeing or not agreeing that the parallel module from Tue 20 to Thu 22-03-12 was relevant to the vocational/professional needs, by module and kind of agreement.

While an average of n=43 participants (62%) gave some indications on the most useful thing learned during the week, only an average of n=14 participants (20%) mentioned aspects that they considered to be the last useful things of the day and/or during the week (see Table 2).

Day of the evaluation and overall evaluation	most useful	least useful
Tuesday, 20-Mar-2012	51	23
Wednesday, 21-Mar-2012	42	17
Thursday, 22-Mar-2012	42	9
Friday, 23-Mar-2012	39	14
Overall evaluation	42	7
Average	43	14

Table 2. Number of participants by day of evaluation and overall evaluation responding to open questions on most and least useful things learned during the day/week; total number of participants n=70

Out of the most useful things that participants of the modules on health in EIA and health in SEA had learned during the workshop the following issues were mentioned most often: the differences and linkages between the various forms of IA, especially between EIA and SEA, how they can gain from each other and how health can be incorporated in EIA/SEA (n=37). Furthermore the different steps in and tools for HIA, EIA and/or SEA (n=22) belonged to the most useful elements of the training for this group of participants. Strategic thinking was mentioned by a number of the SEA module participants as being most useful (n=6).

Participants of the module on quantitative methods in EH especially considered the different quantitative risk assessment methods (n=8) and general methods for risk assessments of air pollution or contaminated sites (n=12) to be the most useful things learned during the workshop; furthermore calculation of standardized mortality ratio (SMR) (n=6), relative risk (RR) and attributable risks (n=4), as well as environmental burden of disease (EBD) (n=7) were specifically mentioned. Most useful contents of the training of trainers' module ranged from "learning styles and the brain" (n=14), and tips for presentations (n=12), to differences of trainer and facilitator (n=6), methods that can be used in trainings (n=5) and how to plan trainings (n=3).

Thematic areas that were considered to be most useful things learned during the day, independent from the in-depth module participants visited, were considered to be energy and health (n=8), nanotechnology and health (n=7), climate change (n=4), water and sanitation (n=4) and risk communication (n=3).

Answers on the least useful things learned during the week varied greatly and ranged from specific contents of a different module, e.g. the learning style questionnaire, or information sources, over explicit key lectures, and particular country case studies to “too much theory” in general.

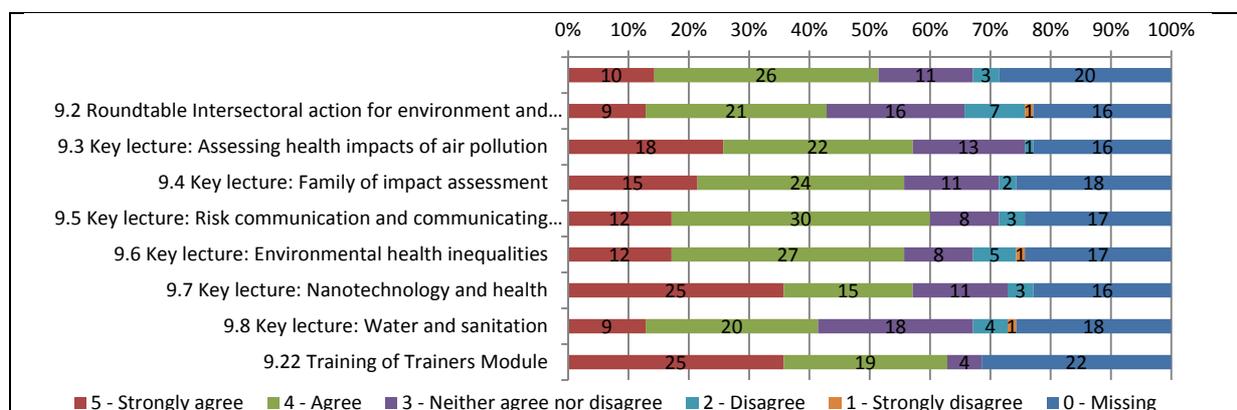


Figure 6. Percentage of participants agreeing or not agreeing to statement on the relevance of the key lectures and training of trainers' module for their vocational/professional needs, by number and kind of agreement per key lecture/module. Total number of participants n=70

Evaluation of the key lectures indicates that, the majority of the participants was satisfied with content, details provided and difficulty of the different key lectures (ranging from 55% up to 74%). Furthermore participants agreed that the key lectures were relevant to the vocational/professional needs (ranging from 52% to 62%). The lecture on water and sanitation and the roundtable on intersectoral action for EH, were seen as being less relevant for the vocational/professional needs (see Figure 6). Furthermore more than 60% of the participants thought that the training of trainers' module was relevant for their professional practice.

Over 50% of participants identified 5 out of the 8 case studies presented by delegates of the participating countries (risk assessment of waste burning, air pollution and bottom-up HIA, HIA implementation, HIA of onshore wind farms, health risk assessment of red sludge catastrophe and on climate change and allergies) as relevant for their vocational/professional needs (see Figure 7).

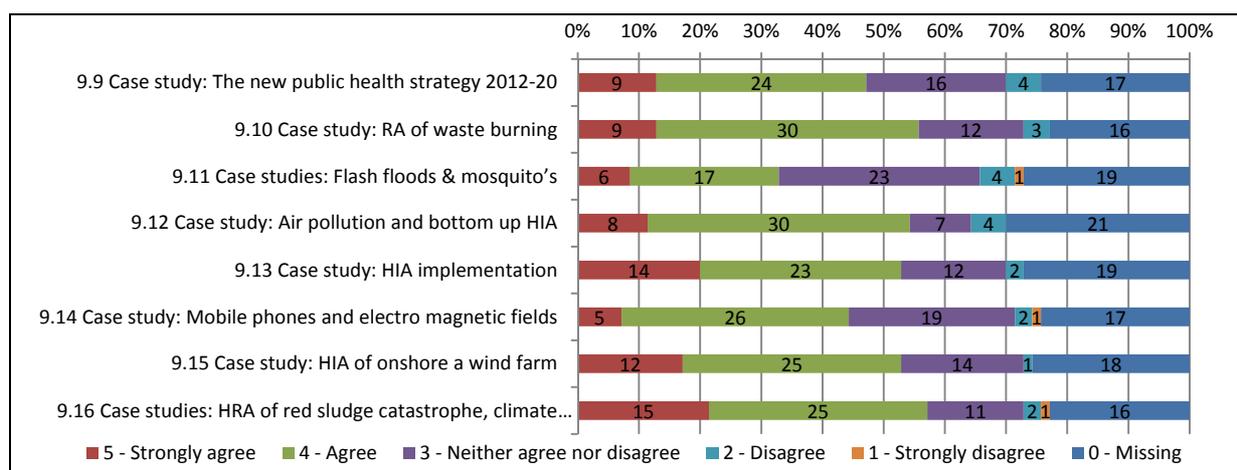


Figure 7. Percentage of participants agreeing or not agreeing to statement on the relevance of the case studies from participating country representative for their vocational/professional needs, by number and kind of agreement per case study. Total number of participants n=70

The majority of the participants was satisfied with knowledge provided during the training week (n=48, 68%), the mixture of key lectures, country case studies and in-depth modules (n=45, 64%) as

well as with the quality of the key lectures and parallel modules (n=42, 60%). Despite this general impression of satisfaction with the training elements, 37% of the participants (n=26) thought the workload during the week was very high (n=22) if not too high (n=4). Furthermore 50% of the participants (n=35) thought that it was worth devoting a full week to a training on EH (see Figure 8).

67% of the participants (n=47) would like to see more networking opportunities with colleagues from other countries and similar training opportunities in their country together with colleagues from the health and the environment sector. But only less than half (n=33, 47%) think that they will engage in EH trainings in their country in the future (see Figure 8).

The way of thinking of 40% of the participants (n=28) has changed during the training week, e.g. participants state that their thinking got larger, more strategic in the sense of positive and forward looking thinking; others reflected that “there is no need for hundreds of data and details in order to make a decision” (ID46) and on the importance of addressing health issues in “EIA/SEA in more detail and more profoundly” (ID37).

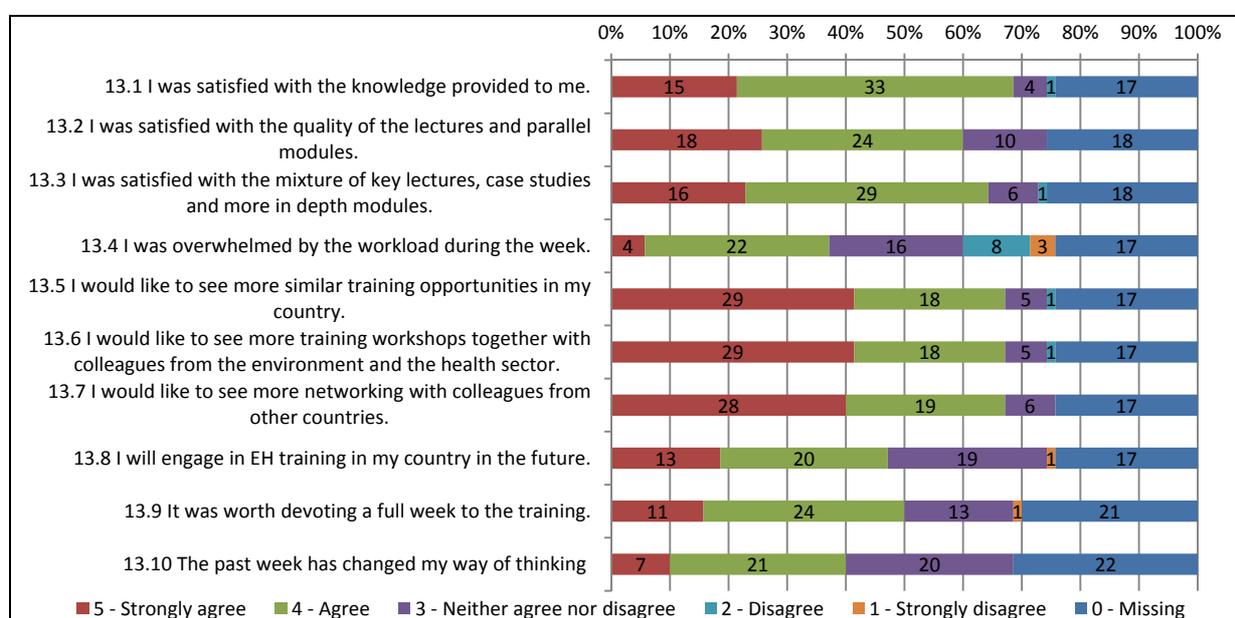


Figure 8. Percentage of participants agreeing or not agreeing to the following statements on their overall impression of the training workshop, by number and kind of agreement per module. Total number of participants n=70.

Additionally participants were asked about topic areas that they felt they would like to learn more about (see Table 3). Risk assessment methods for HIA and small population groups or on specific topics like contaminated sites and water pollution were mentioned most frequently, followed by nanotechnology and health, HIA and SEA implementation/in practice, the linkages between HIA, EIA and SEA, environmental burden of disease methodology and environmental inequalities/social determinants of health. Specific environmental topics like noise, water, air, and energy production were mentioned less frequently. Furthermore two participants mentioned risk communication and communicating uncertainties. Other topics like chemical safety and health, climate change, implementation of the Parma declaration and understanding the views of policy-makers on HIA, EIA, SEA were mentioned by individual participants.

Topic areas to be covered more	Number
Risk assessment (quantitative methods – in HIA, on specific topics – contaminated sites, water, for small population groups)	13
Nanotechnology and health	10
HIA implementation / in practice	9
More case studies of HIA/SEA/EIA, and more exercises	8
Environmental burden of disease	7
Linkages of HIA, EIA and SEA / Family of IA	7
Inequalities (environmental) / social determinants	6
SEA implementation / in practice	5
Noise and health	4
Water pollution and health	3
Air pollution and health	2
Energy and health	2
Risk communication and uncertainties	2

Table 3. Topic areas that participants would like to see covered more in details by number of naming; total participants answering to the open question n=36, multiple answers possible, total workshop participants n=70.

Asked on issues participants would like to see changed in future workshops comments can be grouped around the following: establish a platform or forum to exchange experiences and further networking for the time after the training (n=4); to have more training opportunities, e.g. separate in-depth training for classic HIA, quantitative risk assessment, and environmental burden of disease; key lecture topics (n=4) to have less abstract theoretical sessions and less lecturing, instead work with more real case studies (n=3); to have more group work, exercises and room for discussions – also in plenary sessions (n=3); some participants proposed a different time schedule for the training (e.g. shorter lunch break, 1 day less training) (n=4).

If WHO would repeat a similar training event on EH, 70% of the participants would like to attend an advanced training workshop, and 62% would have other colleagues attending a similar workshop (see Figure 9).

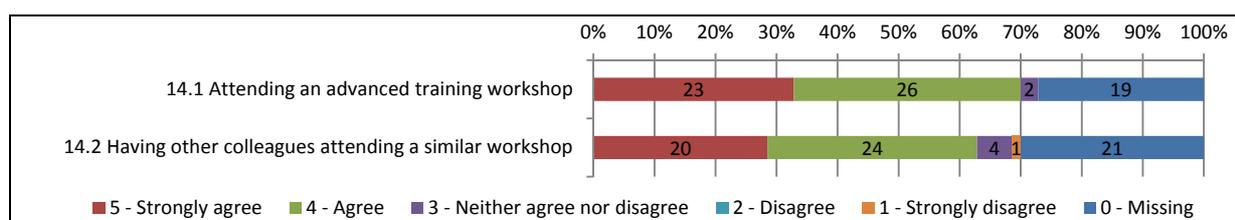


Figure 9. Percentage of participants favouring the following training event, if WHO repeats a EH training event in the next years, by number and kind of preference per event option. Total number of participants n=70.

In regard to the overall organization of the event and the workshop facilities the majority of the participants were satisfied with the meeting venue, the overall organization of the international training week and would like to download presentation handouts and training materials after the workshop (see Figure 10).

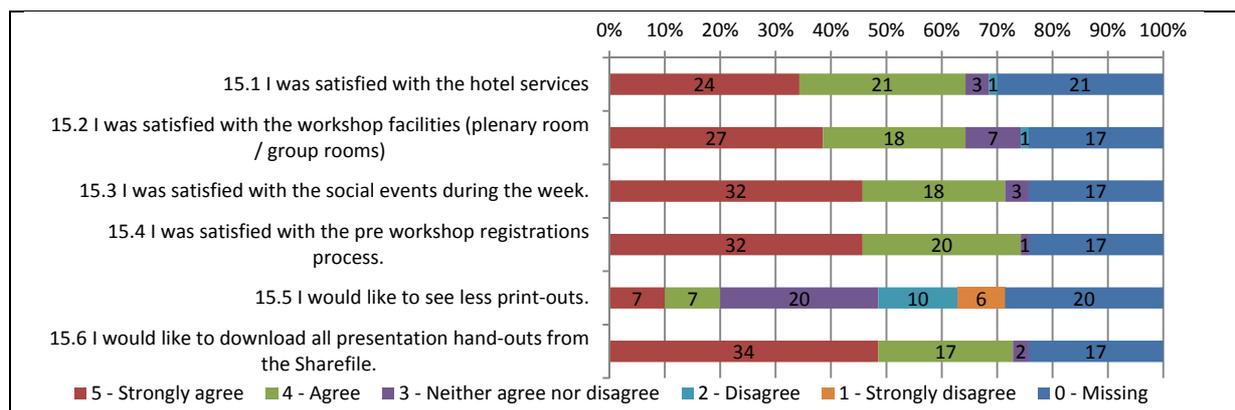


Figure 10. Percentage of participants agreeing or not agreeing to the following statements on their overall impression of the training workshops organization and facilities, by number and kind of agreement per module. Total number of participants n=70

Conclusions

Overall, the international training workshop on EH met its objectives. Participants, coming from health and environmental institutions, were provided with new insights on EH through key lectures on hot topics and in-depth training on health in EIA, health in SEA or quantitative methods. The composition of the different sessions with participants from both sectors and from all participating countries as well as the social events provided opportunities not only for new knowledge but also for further networking.

The structure of the workshop with key lectures combined with in-depth modules proved effective, for relatively junior professionals as well as for participants with many years of experience in the area of EH. If future events were to be considered, however, it might be advisable to provide a similar training to less experienced EH professionals, as also the more in-depth modules could only present an introduction into their specific thematic area. Therefore it could be very valuable to develop advanced international training workshop with less thematic areas but more in-depth training and a focus on practical applications. As suggested by participants possible advance courses could be on health impact assessment and the integration of health in environmental assessments like EIA and SEA, quantitative risk assessment methods and environmental burden of disease applications.

Follow-up of the training workshop

The training materials of all sessions of the international capacity building workshop, including the case studies presented by the participants, have been made available to all participants for their use and reference. The materials of the in-depth modules listed below, have been revised by their authors and are compiled into an intersectoral training package for EH experts.

1. health in EIA of energy projects,
2. health in SEA of energy policies,
3. quantitative methods in the area of environmental health presented in one day workshops on
 - a small scale area approach for contaminated sites,

- quantitative risk assessment methods, and
 - the calculation of the environmental burden of disease, and
4. training of trainers.

The package contains short introductions to the different modules, the slides with notes as well as exercises, references and links to additional information sources. It will become available online on WHO Regional Office for Europe homepage.

Two countries, Estonia and Slovenia, expressed specific interest in a follow-up to the main training event. In discussions with the country representatives it was decided to organize country specific workshops to review in more detail together with health and environment experts their experience in environmental, health and strategic impact assessments and how health issues are assessed. Aim of the two separate workshops was to pull together indications for a way forward in tackling intersectoral EH issues in these countries. More information is provided in separate reports on the findings of these workshops.

Furthermore, an international technical meeting on contaminated sites, attended by representatives of environmental and public health agencies at national and international level, and research experts, was held in Catania, Sicily, on 21–22 June 2012. The meeting was organized in order to explore priorities, interests, needs, and to review the state of the art, the current methodological options, and knowledge gaps in studying the health impact of contaminated sites. More information is provided in a separate report on the meeting.

Annex 1 – Scope and purpose of the CBEH international training workshop, Riga, Latvia, 19–23 March 2012

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ВСЕМИРНАЯ ОРГАНИЗАЦИЯ ЗДРАВООХРАНЕНИЯ
ЕВРОПЕЙСКОЕ РЕГИОНАЛЬНОЕ БЮРО

EUROPEAN CENTRE FOR ENVIRONMENT AND HEALTH

Capacity Building on Environment and Health –Training
Course

EUDHP1003944/11.6/2

Latvia, Riga 19–23 March 2012

28 November 2011
Original: English

SCOPE AND PURPOSE

Many European countries face great challenges in environment and health. The World Health Organization (WHO) estimates that in the European Region of WHO well-tested environment and health interventions could reduce mortality by almost 20%. While rapid social and economic evolution, coupled with a legacy of environmental degradation (and its interplay with other significant health determinants) result in potentially large health impacts currently underway and/or projected, there is also great potential for health gains, if environmental determinants are addressed.

In line with recent orientations in environmental health, as reflected, for example, in the 5th Ministerial Conference on Environment and Health, the European Centre for Environment and Health of the World Health Organization Regional Office for Europe (WHO/Europe), is running the project “Capacity building in Environment and Health (CBEH)”, co-funded by the European Commission, Directorate General for Health and Consumers (EC DG Sanco). The overall objective of the project is to strengthen in-country capacity in several European Member States to deal with environment and health issues. Eight EC Member States participate in the project: Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Slovakia and Slovenia.

The course will last for 5 days, 19 to 23 March 2012 in Riga, Latvia. It is intended for an intermediate/higher level audience working the field of environment and health from different authorities/sectors at central and regional level working in the area of environment and health of the participating countries. The training will be delivered by international experts from scientific institutes, public authorities and WHO/Europe with a substantial involvement of participating Member States.

The course is intended for a total of 60 participants from different authorities and sectors at central and regional level working in the area of environment and health of the participating countries. The participants should be able to transfer their newly gained knowledge to colleagues working at the local level. Participants will be asked to participate in the evaluation of the training workshop in order to further develop the materials for a wider application and to develop ideas on implementation possibilities in their respective countries.

Goals of the project are to mainstream training in EH, to support the inclusion and implementation of key reference acts, e.g. EU Environment and Health Action Plan, the WHO Ministerial Declarations, the UNECE Protocol on Strategic Environmental Assessment (SEA), and to support public health systems and, where applicable, public health reforms to better respond to current and emerging challenges in the environmental domain.

Following consultation workshops with representative from participating Member States, country specific priorities were reviewed and current capacity needs in the field of environment and health were identified. Based on the results of these consultations a five-days training course on environment and health was developed:

The aims of the course are for participants to build on their own knowledge to further their understanding of

- the overall picture of environmental health in Europe;
- the theory and practice of intersectoral work, notably between the health sector and the environmental sector;
- how health and environment issues can be addressed within their areas of work;
- how further training needs in health and environment can be addressed in their countries.

Sectoral areas, and key environmental health factors (for example such as air and water quality, industrial contamination, climate change, emerging issues and technologies etc), will be addressed in keynote presentations from renowned international experts, discussed in plenary sessions. The workshop includes parallel modules on health impact assessment, going through the full range of an impact assessment along case studies of energy and health, both at policy and at project level. Also, some of the parallel sessions will be dedicated to quantitative methods for risk assessment and health impact assessment of specific risk factors and to the analysis and interpretation of epidemiological data in contaminated sites and environmental hotspots. The training course further incorporates a train the trainers' module, with the aim to enable participants to serve as multipliers / trainers in environment and health in their respective countries.

By the end of this course participants will improve their ability to:

- assess the relevance of the decisions taken through the European environment and health process for their work;
- discuss the recent developments in current health and environment key issues like environmental health inequalities, air and water quality, and emerging issues;
- address environment and health aspects in a dialogue with experts from different sectors;
- identify relevant health aspects when conducting or evaluating different forms of impact assessments, such as EIA or SEA;
- collect, organize, display and interpret baseline health data for health impact assessments;
- present the findings of an impact assessment to decision-makers and a wider audience; and
- generate ideas and plans for training events on environment and health in their country.

Annex 2 – Final programme of the CBEH international training workshop, Riga, Latvia, 19–23 March 2012



MINISTRY OF HEALTH
OF THE REPUBLIC OF LATVIA

WHO European Centre for Environment and Health

Capacity Building on Environment and Health –
International Training Workshop
Riga, Latvia, 19–23 March 2012

15 March 2012

Original: English

Provisional Programme

Monday, 19 March 2012	The Policy Framework of Environment and Health
11.15 – 12.00	Registration [<i>in front of Lielupe, 1st floor</i>]
12.00 – 13.30	Registration / Welcome lunch [<i>in front of Lielupe, 1st floor</i>]
13.30 – 14.00	Opening of the Event [<i>Lielupe plenary room</i>] Welcome speeches by <ul style="list-style-type: none"> ▪ M Krzyzanowski, WHO European Centre for Environment and Health ▪ R Muciņš, State Secretary, Ministry of Health ▪ R Bebris, Deputy Director Environment Protection Department, Ministry of Environmental Protection and Regional Development
	Introduction to the CBEH Project, M Martuzzi [<i>Lielupe plenary room</i>]
14.00 – 15.00	Framework of EH in Europe and beyond [<i>Lielupe plenary room</i>] <ul style="list-style-type: none"> ▪ The European Environment and Health Process - an international policy platform to support national actions, F Racioppi ▪ European Environment Agency's work in Environment and Health, D Jarosinska ▪ Views from the ERA ENVHEALTH consortium, A Pittmann
15.00 – 15.30	Coffee break
15.30 – 16.00	Framework of EH in Europe and beyond cont. [<i>Lielupe plenary room</i>] <ul style="list-style-type: none"> ▪ Recent developments in EH research, P Wilkinson ▪ Recent developments in HIA, G Gulis
16.00 – 17.00	Round table, Chair R Fehr [<i>Lielupe plenary room</i>] Intersectoral action for environment and health: are two sectors enough? A Paldy, G Gulis, P Wilkinson, A Pittmann, D Jarosinska, F Racioppi, LVA tbc
17.00 – 17.45	Key lecture: Assessing health impacts of air pollution, M Krzyzanowski [<i>Lielupe plenary room</i>]
17.45 – 18.00	Intro to parallel workshops – plans for next days, J Nowacki [<i>Lielupe plenary room</i>]
18.30	Get together reception [<i>Talavera Restaurant, Radisson Blu Daugava Hotel</i>]

Tuesday, 20 March 2012		Key lectures, case studies and parallel workshops		
08.00 – 8.30	Registration [<i>in front of Lielupe, 1st floor</i>]			
08.30 – 09.30	Key lecture: Forms of impact assessment, R Fehr [<i>Lielupe plenary room</i>]			
09.30 – 10.00	Case study Latvia “The new public health strategy 2012–20”, J Feldmane [<i>Lielupe plenary room</i>]			
10.00 – 10.30	Coffee break			
10.30 – 12.00	Parallel workshops:			
	<p>A. H in IA of energy projects, B Cave & G Gibson [<i>Abava group room</i>]</p> <ul style="list-style-type: none"> ▪ Outline of three day programme: aims objectives and cross-over with the SEA module ▪ Headlines: HIA in the wider context 	<p>B. Health in IA of energy policy and strategies, M Partidario & L den Broeder [<i>Venta group room</i>]</p> <ul style="list-style-type: none"> ▪ Introduction of SEA and Health in SEA; ▪ Energy policies-strategic health issues- technical lectures and group work ▪ Q&A 	<p>C. Health in industrial contaminated sites, R Pirastu, I Ivarone & R Pasetto [<i>Amata group room</i>]</p> <ul style="list-style-type: none"> ▪ Mortality study of residents in contaminated sites in Italy (SENTIERI Project) ▪ Evaluation of the epidemiological evidence of the association between environmental exposure and disease: case-study 	
12.00 – 13.30	Lunch			
13.30 – 15.00	<p>[<i>Abava group room</i>]</p> <ul style="list-style-type: none"> ▪ Stages in an HIA ▪ Cultural influences on HIA practice 	<p>[<i>Venta group room</i>]</p> <ul style="list-style-type: none"> ▪ Case exercise: understand the energy policy strategy and health implications - group discussion 	<p>[<i>Amata group room</i>]</p> <ul style="list-style-type: none"> ▪ Introduction to ecological studies ▪ Risk indicators: crude rates, direct standardized rates, Standardized Mortality/Morbidity Ratios ▪ Calculate risk indicators 	
15.00 – 15.30	Coffee break			
15.30 – 17.00	<p>[<i>Abava group room</i>]</p> <ul style="list-style-type: none"> ▪ Commonality of technical language within an HIA ▪ Introduction to case study 	<p>[<i>Venta group room</i>]</p> <ul style="list-style-type: none"> ▪ Case exercise cont. ▪ Groups feed-back 	<p>[<i>Amata group room</i>]</p> <ul style="list-style-type: none"> ▪ A priori evidence and health statistics ▪ Key principles of evaluating EH aspects of contaminated sites ▪ Recognize the public health implications in terms of preventive intervention to be implemented 	
17.00 – 17.45	Case study Slovakia "The implementation of HIA in Slovakia", Z Kolchanova [<i>Lielupe plenary room</i>]			
17.45 – 18.00	Feedback from the parallel workshops [<i>Lielupe plenary room</i>]			

Wednesday, 21 March 2012		Key lectures, case studies and parallel workshops		
08.30 – 09.30	Key lecture, Health and energy, P Wilkinson [<i>Lielupe plenary room</i>]			
09.30 – 10.00	Case studies Slovenia, P Otorepec [<i>Lielupe plenary room</i>]			
	<ul style="list-style-type: none"> ▪ Air pollution ▪ Strategic environmental health impact assessment 			
10.00 – 10.30	Coffee break			
10.30 – 12.00	Parallel workshops:			
	A. H in IA of energy projects, B Cave & G Gibson <i>[Abava group room]</i> <ul style="list-style-type: none"> ▪ Health and socioeconomic assessment ▪ Health and Environmental protection 	B. Health in IA of energy policy and strategies, M Partidario & L den Broeder <i>[Venta group room]</i> <ul style="list-style-type: none"> ▪ Getting focused in SEA: mini-lecture ▪ Case exercise: relevant strategic issues to consider - group discussion 	C. Biomonitoring and quantitative methods for HIA, P Wilkinson <i>[Amata group room]</i> <ul style="list-style-type: none"> ▪ Explanation of QRA exercise ▪ Group work: formulation of QRA, carrying out of calculations and preparation of group presentation of findings ▪ Presentations 	
12.00 – 13.30	Lunch			
13.30 – 15.00	<i>[Abava group room]</i> <ul style="list-style-type: none"> ▪ Module A cont. 	<i>[Venta group room]</i> <ul style="list-style-type: none"> ▪ Assessment in SEA – looking for strategic option – mini-lecture ▪ Case exercise: alternative policy options that enhance health issues - group discussion ▪ Groups feed-back 	<i>[Amata group room]</i> <ul style="list-style-type: none"> ▪ Discussion of lessons from morning activities ▪ Carrying out a QRA calculation in a simple Excel spreadsheet ▪ Handling uncertainties: demonstration of methods for quantification ▪ Wrap-up lecture and discussion 	
15.00 – 15.30	Coffee break			
15.30 – 16.15	Key lecture, Risk communication and communicating uncertainties, A Leppin [<i>Lielupe plenary room</i>]			
16.15 – 17.00	Key lecture, Environmental health inequalities, G Morris [<i>Lielupe plenary room</i>]			
17.00 – 17.45	Case studies [<i>Lielupe plenary room</i>]			
	<ul style="list-style-type: none"> ▪ Estonia "Risk assessment of waste burning in Kunda town", J Tomasova ▪ Czech Republic, "Flash floods in the Liberec region from the point of view of public health authority", J Kucerova 			
17.45 – 18.00	Feedback from the parallel workshops			

Thursday, 22 March 2012		Key lectures, case studies and parallel workshops		
08.30 – 09.30	Key lecture, Nanotechnology and health, V Howard [<i>Lielupe plenary room</i>]			
09.30 – 10.00	Case study Lithuania "The Case of Wind Farm HIA", V Uscila [<i>Lielupe plenary room</i>]			
10.00 – 10.30	Coffee break			
10.30 – 12.00	Parallel workshops:			
	<p>A. H in IA of energy projects, B Cave & G Gibson [<i>Abava group room</i>]</p> <ul style="list-style-type: none"> ▪ Co-ordination of outcomes from day 2 ▪ Filtering pertinent information ▪ Assessing shortfalls in information ▪ Presenting findings into cohesive structure 	<p>B. Health in IA of energy policy and strategies, M Partidario & L den Broeder [<i>Venta group room</i>]</p> <ul style="list-style-type: none"> ▪ Assessment in SEA – option assessment and guidelines for follow-up – mini-lecture ▪ Case exercise: options assessment using health-inclusive criteria, and follow-up - group discussion 	<p>C. Environmental Burden of Disease, O Haninen [<i>Amata group room</i>]</p> <ul style="list-style-type: none"> ▪ Introduction to the concepts and methods ▪ Formation of the small groups and handling of input data ▪ National data extraction and model development 	
12.00 – 13.30	Lunch			
13.30 – 15.00	<p>[<i>Abava group room</i>]</p> <ul style="list-style-type: none"> ▪ How does HIA fit into the wider process? How are HIAs used? What can they achieve? ▪ How can you assure the quality of a completed HIA? ▪ What information sources are there for HIA? ▪ What are your next steps? 	<p>[<i>Venta group room</i>]</p> <ul style="list-style-type: none"> ▪ Groups feed-back ▪ Discussion over SEA role for health enhancement. 	<p>[<i>Amata group room</i>]</p> <ul style="list-style-type: none"> ▪ Demonstration of the EBD calculations ▪ Finalization of the case study models ▪ Presentation of the results to the class ▪ Exercise summary 	
15.00 – 15.30	Coffee break			
15.30 – 16.15	Presentation results SEA group [<i>Lielupe plenary room</i>]			
16.15 – 17.00	Presentation results EIA group [<i>Lielupe plenary room</i>]			
17.00 – 17.45	Feedback from the 3rd parallel workshop [<i>Lielupe plenary room</i>]			
19.00 – 22.00	<p>Guided tour and social dinner at Pauls Stradins Museum for Medicine History, http://www.mvm.lv/en [1st Bus to the museum will leave at 18.45 from the Hotel / 1st Bus back to the hotel will leave at 22.00 from the museum]</p>			

Friday, 23 March 2012	Training of trainers	
08.30 – 09.30	Key lecture, Water, R Aertgeerts [<i>Lielupe plenary room</i>]	
09.30 – 10.00	Case studies Hungary, A Paldy [<i>Lielupe plenary room</i>]: <ul style="list-style-type: none"> ▪ Aspects of health risk assessment of red sludge catastrophe (Contaminated sites) ▪ Health impacts of climate change: Lyme disease, allergenic pollen as indicators (Climate changes) ▪ Assessment of pregnancy outcomes – as a tool in EHIA in relation to air pollution and drinking water quality (Risk assessment methodologies) 	
10.00 – 10.30	Coffee break	
10.30 – 12.00	Training of trainers, F Matthies [<i>Abava group room</i>] <ul style="list-style-type: none"> ▪ Recap / feedback to teaching styles in previous days (scoring exercise and discussion) 	Training of trainers, F Mitis [<i>Venta group room</i>] <ul style="list-style-type: none"> ▪ Recap / feedback to teaching styles in previous days (scoring exercise and discussion)
12.00 – 13.30	Lunch	
13.30 – 15.00	[<i>Abava group room</i>] <ul style="list-style-type: none"> ▪ Running a course – practical issues 	[<i>Venta group room</i>] <ul style="list-style-type: none"> ▪ Running a course – practical issues
15.00 – 15.15	Coffee break	
15.15 – 16.00	[<i>Abava group room</i>] <ul style="list-style-type: none"> ▪ Practical exercise 	[<i>Venta group room</i>] <ul style="list-style-type: none"> ▪ Practical exercise
16.00 – 16.45	Round up and certificates [<i>Lielupe plenary room</i>]	
16.45	End of the workshop	

Annex 3 – Final list of participants of the CBEH international training workshop, Riga, Latvia, 19–23 March 2012



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Annex 4 – Biosketch of CBEH Faculty



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Biosketch of CBEH Faculty

Roger Aergeerts, WHO European Centre for Environment and Health, Germany

Graduated from the University of Ghent, Belgium. Worked successively as researcher at the Free University of Brussels (ULB), associate expert in environmental sciences at the UNESCO Regional Office for Southeast Asia in Jakarta, Indonesia and consultant to the Intergovernmental Oceanographic Commission and the Food and Agriculture Organization. Returned to Indonesia as project director for the Belgian Administration for Development Cooperation, and managed a portfolio of environmental programmes for UNDP/UNOPS before joining the WHO Regional Office for Europe as program manager, water sanitation and health.

Academic qualifications: M.Sc. Chemistry (Ghent), M.Sc. Water management and sustainability (University of Staffordshire), Diploma in Environmental Law (UNITAR) and Certificate in Contract Law (George Washington University).

Ben Cave, Ben Cave Associates Ltd., United Kingdom

Ben Cave is Director of Ben Cave Associates. Core areas of Ben's work are Health Impact Assessment (HIA) and integrating health into the development planning process. He has worked across the UK, in mainland Europe and further afield with policy makers, public health academics, environment scientists and spatial planners. Cutting across professional boundaries he provides public health and policy advice at a senior level in local, regional, national and international arena. Ben Cave worked with the Greater London Authority from 2001-2010 in developing health in their strategic assessments. He has since led HIAs in conjunction with environmental assessments in a wide range of sectors, for example infrastructure for road, rail and air, energy, mining developments and waste facilities and also for mixed use developments.

He is currently leading a project for the European Commission on health gain and structural funds and he is providing training on 'Equity focussed policy HIA' for an EU joint action programme.

Ben was a member of the National Institute of Health and Clinical Excellence's Professional Development Group on Health and Spatial Planning. He was the sole European member of the US National Academy of Science committee on Health Impact Assessment. He co-chaired the health section of the International Association for Impact Assessment from 2005-2011 and was given their 2011 Individual Award for contributions to impact assessment. He is a Visiting Fellow at the University

of Liverpool, University of the West of England and at the University of New South Wales.

Lea den Broeder, National Institute for Public Health and the Environment (RIVM), Netherlands

Lea den Broeder MA MPH works as a senior advisor at the National Institute for Public Health and the Environment (RIVM). By training she is a social scientist. She has worked on HIA and health policy for over 12 years. In 2009 she hosted the 10th international HIA conference. Since then she is a member of the conference steering committee. She is an experienced trainer and speaker on the topic of HiAP and HIA. Lea is a Director on the Board of the International Association of Impact Assessment (IAIA).

Rainer Fehr, Landeszentrum Gesundheit LZG.NRW, Germany

Rainer Fehr, MD, Ph.D. (epidemiology) received his academic education in Germany, Great Britain, and the USA. In the past, he worked at the University of Hamburg, Department of Biostatistics and Clinical Epidemiology, and at the Hamburg State Ministry of Health, Division of Epidemiology. His responsibilities included the Hamburg Cancer Registry.

He is a director of the Center for Health (Landeszentrum Gesundheit), State of North Rhine-Westphalia (Germany). At the University of Bielefeld, Department of Health Sciences, he is an adjunct professor for Public Health. A recurring task in his professional life has been to establish and nurture new units, dealing with epidemiology / health planning / environmental health / prevention and innovation.

Frank George, WHO European Centre for Environment and Health, Germany

Frank George is an economist with specialization in humanitarian assistance, development economics and economics of the welfare state (incl. health and pension systems) at the LSE and Bilbao and Freiburg University. His thesis focussed on the debate how the instrument of EIA/Environmental Impact Analysis could be applied in state development policies and programs. He has worked ten years in Eastern Africa in the Great Lakes Region for the Red Cross Family (IFRC/ICRC) and the European Commission (ECHO) in humanitarian assistance followed by an EU TACIS project supporting the Russian Government in defining a new health and pension system from 1998–2000. Since then he has worked for WHO in the Regional Office for Europe in Copenhagen and Headquarters in the Brussels and Geneva office as Senior External Relation Adviser. In 2012 he joined the WHO environment and health team – located in Bonn, Germany – as health economist in the programme on "Environmental Health Intelligence and Forecasting".

Gillian Gibson, Gibson Consulting and Training, United Kingdom

Gillian currently enjoys a senior position within the environmental profession, backed by some 35 years experience as a practitioner, consultant and trainer. Gillian is an experienced and respected trainer with a strong background in the pharmaceutical and public health fields. As well as being a professionally qualified teacher, she is a Chartered Environmentalist and Fellow of the Institute of Environmental Management & Assessment (IEMA).

Gillian's early experience was in the pharmaceutical industry, from which she branched out into wider environmental science. More recently she has acquired considerable experience in the development and implementation of environmental management systems and currently runs international training on this for a number of clients. Gillian is also a registered and experienced environmental auditor.

Gillian has experience of working with both UK and international clients ranging in scope from local and national governments to NGOs and from large multinationals to SMEs and micro companies.

Gillian provides technical input to Health Impact Assessments (HIA) on a variety of planning applications.

Gillian has been a guest lecturer on IPPC and planning at Manchester University. She also teaches on the Masters in Public Health course run by John Moores University, as well as providing training on sustainability for the Faculty of Health continued training programme in the North West of the UK.

Gillian is a director of the IEMA and chairman of the IEMA North West Region steering group. She is vice chairman of the IEMA's Professional Standards committee. She is a senior member of the IEMA Full Membership Assessment panel and also serves as a Chartered Environmentalist Assessor working on behalf of the Society for the Environment. Gillian regularly runs professional development workshops for IEMA members and provides pre-application guidance and advice for prospective members and chartered environmentalists.

Gabriel Gulis, University of Southern Denmark, Denmark

Gabriel Gulis is a public health lecturer and researcher at University of Southern Denmark, Unit for health promotion research in Esbjerg, Denmark. His research over last 13 years is on HIA with focus on tool development, capacity building and implementation. Through 2006–2012 he co-ordinate two EU funded projects related to HIA (HIA-NMAC and RAPID) and took part in other HIA projects as the PHASE project by WHO Healthy Cities network) and “the Effectiveness of HIA”.

Otto Hänninen, Finnish National Institute for Health and Welfare, Finland

Docent Otto Hänninen (Ph.D., Adj.prof) is an expert in population exposure assessment and environmental burden of disease evaluation. He acted as a Technical Officer for the World Health Organization working group developing WHO Guidelines for Indoor Air Quality. His research includes indoor and outdoor air pollution and policy evaluation

Vyvyan Howard, University of Ulster, United Kingdom

Professor C. Vyvyan Howard MB. ChB. PhD. FSB. FRMS. FRCPath. is a medically qualified toxicopathologist specializing in the problems associated with the action of toxic substances on the fetus and the infant. He is Professor of Bioimaging at the University of Ulster and has written a number of papers and book chapters and spoken in a variety of forums to draw attention to the threat posed by environmental pollutants to the developing fetus. He is a Fellow of the Royal College of Pathologists, Past President of the Royal Microscopical Society, Member of the British Society of Toxicopathologists, Past President of the International Society of Doctors for the Environment and Member of the European Teratology Society. He has just completed 6 years as a toxicologist on the UK Government DEFRA Advisory Committee on Pesticides.

A large part of Professor Howard's current research is the investigation of the fate toxicology of nanoparticles. His research team has been a Partner two large EU grants; 'NanoInteract and 'NeuroNano'. He has co-edited a book entitled 'Particulate Matter: Properties and Effects upon Health' published in September 1999. (Maynard RL & Howard CV, BIOS Scientific Publishers, Oxford, 1999. ISBN 1-85996-172-X). Vyvyan Howard has sat on two EU expert groups considering the threats and benefits posed by nanotechnology and recently addressed the House of Lords Select Committee on Science and Technology investigating the use of nanotechnology in food.

Michal Krzyzanowski, WHO European Centre for Environment and Health, Germany

Michal Krzyzanowski is a Head of the WHO European Centre for Environment and Health in Bonn, belonging to the WHO Regional Office for Europe. His technical work focuses on the preparation of scientific evidence on health impact of environmental hazards, in particular of air pollution. The global update the WHO Air Quality Guidelines as well as a series of Indoor Air Quality Guidelines is the products of his team. He has been also a coordinator of a series of WHO projects developing European Environment and Health Information System (ENHIS) as well as of a project developing health-relevant indicators on climate change. Before joining WHO in 1991, Dr Krzyzanowski conducted epidemiological research on health aspects of air pollution and other environmental factors in Poland, United States and France. He is an author of more than 200 scientific publications. He has MSc in Physics from Warsaw University and ScD and PhD (Dr.hab) in Epidemiology from National Institute of Hygiene, Warsaw, Poland.

Anja Leppin, University of Southern Denmark, Denmark

Anja Leppin is a Professor at the Institute of Public Health at the University of Southern Denmark and has before held positions at the Schools of Public Health, University of Bremen, and the University of Bielefeld, Germany. She has a Master's degree and a PhD in Psychology from the Free University Berlin, Germany. She has been engaged in research and teaching on health risk perception and risk communication since her PhD work and is currently developing a research focus area on risk communication for the newly founded Danish Institute of Risk Research and a specialisation track in risk management and communication for the Master of Public Health Program at the University of Southern Denmark.

Ivano Iavarone, MSc. Senior Researcher at the Environmental Epidemiology Unit, Department of Environment and Primary Prevention, Istituto Superiore di Sanità (Italian National Institute of Health), Rome – Italy

Education: 1995, Master of Science in Environmental Epidemiology & Policy, London School of Hygiene and Tropical Medicine, University of London; 1990, Degree in Biological Sciences, University of Rome "La Sapienza". Discipline. Environmental epidemiology. Research areas: environmental health, exposure evaluation and health impact assessment, biomonitoring, air pollution, contaminated sites, mobile phones. Temporary Adviser for WHO. Reviewer for European Research Council (ERC) research projects proposals. Author of about 80 scientific publications, 41 of which indexed in Medline/PubMed.

Dorota Jarosinska, European Environmental Agency, Denmark

Medical doctor by training (Medical University of Silesia, 1988), PhD, a specialist in public health, D. Jarosinska has over 20 years of experience in the area of environmental medicine and environmental health. In the 1990-ties, she participated in a year-long postgraduate course on Advanced Environmental Sanitation in the Netherlands, and in a two-year long training in environmental health for physicians in Poland. In 2000–2011 she was a Fulbright scholar at the National Institute of Environmental Health Sciences, USA. For almost 10 years D. Jarosinska was leading the first outpatient clinic of environmental medicine in Poland. She has been collaborating with WHO Europe on the projects on environmental health information. For four years seconded as a national expert to the European Environment Agency (EEA), Copenhagen; since 2009 has been working on Environment and Health issues in the Integrated Environmental Assessment Programme at the EEA. Authored several scientific papers and contributed to the reports by EEA, WHO, and UNEP; among others, contributed as a lead author to the 4th Assessment of Europe's Environment (2007) and the European Environment State and Outlook report (2010).

Marco Martuzzi, WHO European Centre for Environment and Health, Germany

Marco Martuzzi is an epidemiologist with experience in environmental and occupational studies. He has worked at the Italian Institute of Health, the London School of Hygiene and Tropical Medicine, the Imperial College School of Medicine, before moving to WHO, first at the International Agency for Research on Cancer (Lyon) and, since 1998, at the European Centre for Environment and Health, previously in Rome and currently in Bonn, Germany.

He obtained a PhD in Community Medicine from the University of London in 1996.

He is responsible for the Programme on Environmental Health Intelligence and Forecasting, which aims at supporting WHO's European Member States in decision making on environment and health matters.

Franziska Matthies, Consultant, Germany

Franziska Matthies holds a MSc in Biology from Ludwig-Maximilian University in Munich, Germany,

and a PhD in Epidemiology from the University of Basel, Switzerland. Between 1998 and 2005 she worked at several European University Institutions such as the Swiss Tropical Institute, Basel, the Institute for Social and Preventive Medicine, University of Lausanne, the Department for Hygiene and Tropical Medicine, University of Heidelberg, and the Department for International Health at the University of Copenhagen, where she was collaborating in designing, coordinating and running various short courses and training modules in international health as well as a one year Masters Programme in Health Economics. She started working on global climate change and human health when she joined the German Advisory Council on Global Change (WBGU) as research analyst in 2001 at the Department for Hygiene and Tropical Medicine in Heidelberg. Her main interest lies in the development of adaptation and response strategies in health policies and health systems to prevent and reduce impacts of climate change on human health. From 2005-2011 she worked for the WHO Regional Office for Europe, Centre for Environment and Health in Rome. Her main work focused on improving public health responses to extreme weather events (Development of handbooks and information sheets, training modules, international conferences and coordination and collaboration in several EC-co-funded projects). Franziska Matthies is currently working as a consultant for the WHO Regional Office for Europe.

Francesco Mitis, WHO Regional Office for Europe, Denmark

Francesco Mitis is a statistician of Italian nationality. He got his degree at the University of Rome “La Sapienza” and in 1998 started to work for the World Health Organization, European Centre for Environment and Health, in the Rome office. He has been working for more than 10 years in the field of environmental epidemiology with particular focus on methods dealing with burden of disease and quantitative risk assessment applied to air pollution, waste exposure and contaminated sites. Since 2009 he has been working also for the violence and injury prevention team, now based in Copenhagen, and he has started to deliver training courses in the countries of the Eastern part of the WHO European Region, applying a train the trainer approach.

George Morris, NHS Health Scotland, United Kingdom

George Morris has had a career-long involvement in environmental public health working in enforcement, in academia, as a Consultant in the UK’s National Health Service and as a Science Policy Adviser to Scotland’s Chief Medical Officer.

Now working independently, George retains a strong interest in the role of the physical environment in health inequality. He has recently presented and published on the challenges of developing an appropriate environmental health response to an “era of ecological public health”.

Julia Nowacki, WHO European Centre for Environment and Health, Germany

Julia Nowacki, M.Ed. MPH, studied adult education and political science at the University of Cologne and Public Health at the University of Bielefeld. Before joining WHO in 2008 she was the knowledge manager of the public sector audit and consulting department of KPMG Cologne. She joined WHO European Centre for Environment and Health, Rome, in 2008 as Technical Officer and moved recently to the reopened WHO European Centre for Environment and Health in Bonn. Her main work focuses Health Impact Assessment (HIA), the integration of health into environmental impact assessment (EIA) and Strategic Environmental Assessment (SEA), environmental justice, and the development and implementation of trainings in WHO European Member States.

Anna Paldy, National Institute of Environmental Health, Hungary

MD, MPH, PhD medical doctor, specialized in the field of public health and epidemiology. She started her scientific career as a toxicologist, later switched to environmental epidemiology. She has been involved in several national and multicentre studies assessing the impact of air pollution, climate change and risk assessment using small area statistics. She is the deputy director of the National Institute of Environmental Health

Maria do Rosário Partidário, Associate Professor at Instituto Superior Tecnico (IST) Departamento de Engenharia Civil e Arquitectura, Portugal

Maria Partidário has an international standing on Strategic Environmental Assessment (SEA) as author, researcher, trainer and consultant in this area of knowledge. Co-author of one of the earliest books on SEA (1996), she has published extensively in this same area. She has been leading international thinking in strategic-based and integrated approaches to SEA in view of sustainability, creating a key distinction from impact-based approaches.

Her professional activity includes advisory and consultancy to United Nations organizations and to bi and multi-lateral financial institutions, also delivering training and developing capacity-building programmes, and acting as keynote speaker on SEA in over 30 countries. Her international leadership in this field was confirmed in 2002 with the Individual Award of the International Association for Impact Assessment, of which Maria Partidario was a former President in 1997. In Portugal she has strongly influenced current practice, on SEA through the development of guidance, published by the Portuguese Environment Agency. She has been the leading coordinator of the development of the Business Sustainability Index, and Observatory of the BSCD Portugal.

Maria's background include environmental engineering, urban planning, environmental assessment and sustainability. This gave her a sound basis of tools and interests to move on and explore different areas of application, subsequently engaging into cultural, ethical, social and governance issues, underpinning her major current interest and concern on strategic approaches and sustainability.

Roberto Pasetto, Istituto Superiore di Sanità, Italy

Roberto Pasetto, MSc. researcher at the Environmental Epidemiology Unit, Department of Environment and Primary Prevention, Istituto Superiore di Sanità (Italian National Institute of Health). Education: 2007, Master of Science in Epidemiology, Institute for Scientific Interchange - Italian Epidemiological Association; 1996, Degree in Biological Sciences, University of Rome "La Sapienza". Research areas: 1996-2004, descriptive and analytical epidemiology: pesticides, asbestos and other mineral fibers, electromagnetic fields; since 2004, main area of interest: epidemiology in contaminated sites. Speaker at conventions and initiatives for risk communication organized by Italian national and local health and environment authorities. Temporary Advisor for WHO for environment and health issues. Author of about 70 scientific publications, 40 of which in peer-reviewed journals.

Roberta Pirastu, Università La Sapienza, Italy

Education: 1982, Combined Course in Epidemiology and Biostatistics, London School of Hygiene and Tropical Medicine; 1981, Master of Science in Occupational Hygiene, London School of Hygiene and Tropical Medicine, University of London; 1976, Degree in Biological Sciences, University of Rome "La Sapienza".

Main research activities: a) Occupational epidemiology, conduction of occupational cohort studies. Cohorts of: vinyl chloride exposed workers in Italy and Europe, tannery workers, art glass workers, rock salt workers, rubber and plastics manufacturers. b) Environmental epidemiology: study of respiratory health in children and investigation of health status of residents in contaminated sites.

Other assignments - Temporary Adviser for WHO. Referee for the journals Occupational and Environmental Medicine and American Journal of Industrial Medicine. External referee of the ERC (European Research Council) Advanced / Starting Grant 2010 and 2011 project proposals.

Roberta Pirastu is author of about 80 scientific publications, 63 in peer-reviewed journals.

Adrienne Pittman, French agency for food, environmental and occupational health safety, France

Adrienne joined ANSES in March 2005. She has an MSc in Environmental Technology, focusing on Health and the Environment. Adrienne has extensive knowledge of EC work and research. She is coordinator of the ERA-ENVHEALTH project since 2008 and has been involved in the preparation and submission of a number of EC projects and studies throughout her professional experience. Prior

to joining ANSES, Adrienne was a scientific writer in an intergovernmental organization and has worked as a consultant on a wide range of projects for national, regional and local government and other public sector agencies in the UK and Belgium.

Francesca Racioppi, WHO Regional Office for Europe, Denmark

Francesca Racioppi – Scientist, Transport and Health WHO Regional Office for Europe

Until end 2011, she led the activities of the Rome Office of the WHO European Centre for Environment and Health, facilitated the WHO Regional Office activities in the area of Environment and Health. She established and led the WHO/Europe programme for violence and injury prevention, and leads the WHO/Europe activities on “Transport and Health”.

She has extensive experience in addressing environmental health issues through multi-sectoral approaches, as well as the development of tools and methods that facilitate the uptake of health considerations by non-health sectoral policies.

She has fifteen years of experience in the development of international policies for environment and health and violence and injury prevention, including by contributing to the organization and coordination of international intergovernmental events, such as the Fifth Ministerial Conference on Environment and Health (Parma, Italy 2011).

In collaboration with the United Nations Economic Commission for Europe (UNECE) she leads the WHO contribution to the “Transport, Health and Environment Pan European Programme” (THE PEP), a platform that brings together European ministries of transport, health and environment with the objective of better integrating health and environmental considerations into transport policies.

Aiga Rurane, WHO Country Office Latvia, Latvia

Dr Aiga Rurane received her academic education in the field of gynaecology-obstetrics. Her postgraduate education includes training on gynaecology and public health in Canada, Sweden, Norway, Denmark, England. Working as gynaecologist, from 1988 to 1993, she then worked as Head of the Mother and Child Health Department in the Ministry of Welfare of Latvia from 1994 to 1995. Since 1995 she is the Head of the WHO Country Office in Latvia. Dr Rurane manages WHO core functions at country level, provides health policy advice to national government, and coordinates activities of health development partners at country level. She is author and co-author of a number of scientific publications.

Paul Wilkinson, London School of Hygiene & Tropical Medicine, United Kingdom

Paul Wilkinson is Reader in Environmental Epidemiology in the Department of Social and Environmental Health Research, London School of Hygiene & Tropical Medicine. He trained in medicine and public health in Oxford and London, UK, and began epidemiological research at the National Heart & Lung Institute in 1990 before moving to the London School in 1994. His principal research interests are climate and health; the health consequences of environmental change; and methods for assessing environmental hazards to health.

Annex 5 – Registration form

EUROPEAN CENTRE FOR ENVIRONMENT AND HEALTH

Capacity Building on Environment and Health
 – International Training Workshop –
 Riga, Latvia, 19–23 March 2012

REGISTRATION FORM

Name, surname: _____

Name of Institute: _____

Address: _____

Zip, City, Country: _____

Telephone: _____

Fax: _____

E-mail: _____

Bank details

Account number: _____

Bank code: _____

**Swift (BIC)
code:** _____

Account holder: _____

IBAN-Code: _____

Bank name: _____

Bank address: _____

Travel information

Your travel will be arranged by Kristine Dance (dancek@euro.who.in), Programme Assistant unless you request otherwise. In order to efficiently arrange your travel, please state your preferred travel information

Arrival date: _____

Time: _____

Airport/station: _____

Departure date: _____

Time: _____

Airport/station: _____

In order to confirm your accommodation (if applicable) please complete the hotel registration form and send it directly to the hotel. Please give your credit card details to guarantee your reservation.

Background Information (for better preparation of the training)

1. What is your main area of work: _____

2. Years of working experience _____

3. On a scale where "5" you do work in this area daily and "1" you have no working experience at all in this area, how would you rate your working experience in the following areas:

Health Impact Assessment	no experience	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	daily experience
Environmental Impact Assessment	no experience	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	daily experience
Strategic Environmental Assessment	no experience	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	daily experience
Energy projects/policies	no experience	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	daily experience
Industrial contaminated sites	no experience	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	daily experience
Risk assessment of environmental factors on health	no experience	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	daily experience
Environmental burden of disease methodology	no experience	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	daily experience
Conducting trainings as trainer / facilitator	no experience	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	daily experience

Please prioritize the parallel workshops; 1 to 3, with "1" being your favourite course

(For selection of your favourite module please refer to the description attached)

Module A: Health in environmental impact assessment of energy projects ...

Module B: Health in strategic environmental assessment of energy policies and strategies

Module C: Contaminated sites, risk assessment and environmental burden of disease

Are you planning to bring your own PC/Laptop with you to the course (this is encouraged):

yes

no

Signature:

Date:

Please return this form filled in and signed no later than Tuesday 6 March 2012 to:

Name:	Kristine Dance,	WHO country office, Latvia
	CBEH Programme Assistant	Pils iela 21 Rīga, LV-1050
	Tel. +371 67503619 - Fax:+371 67503603	Latvia
	E-mail: dancek@euro.who.int	

Annex 6 – Evaluation questionnaires

Capacity Building on Environment and Health – International Training Workshop

Riga, Latvia, 19–23 March 2012

DAILY EVALUATION QUESTIONNAIRE

You have just finished a series of lectures and exercises. We are very interested in your opinions about these lectures so we can continue improving the material. We would appreciate if you take the time to answer the few questions below.

Date: _____

Please tick the box that best describes your main sector of work:

Environment sector Health sector Other (please specify in the space provided below)

How many years of working experience do you have: _____ years

Please tell us which module you followed today:

Module A – EIA Module B – SEA Module C – Contaminated Sites, QRA, EBoD

Please tell us your level of agreement with each of the following statements, if applicable:					
KEY LECTURE	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
1. Key lecture contents were related clearly objectives					
2. Details provided in the lectures were appropriate					
3. The level of difficulty of the lectures was appropriate					
4. The workload of the lectures was appropriate					
5. These lectures are relevant to my vocational/professional needs					
PARALLEL MODULE					
1. Module contents was related clearly to objectives					
2. Details provided in the modules were appropriate					
3. The level of difficulty of the parallel module was appropriate					
4. The workload of the parallel module was appropriate					
5. This module is relevant to my vocational/professional needs					

Please, list the three most useful things you have learned today.

- 1.
- 2.
- 3.

Please list the three least useful topics covered today.

- 1.
- 2.
- 3.

Capacity Building on Environment and Health – International Training Workshop

Riga, Latvia, 19–23 March 2012

FINAL EVALUATION QUESTIONNAIRE

You have just finished a series of lectures and exercises. We are very interested in your opinions about these lectures so we can continue improving the material. We would appreciate if you take the time to answer the few questions below.

Date: 23 March 2012

Please tick the box that best describes your main sector of work:

Environment sector Health sector Other (please specify in the space provided below)

How many years of working experience do you have: _____ years

Please tick the box of your country

Czech Republic Estonia Hungary Latvia Lithuania Poland Slovakia Slovenia

Please tell us which module you followed during the week:

Module A – EIA Module B – SEA Module C – Contaminated Sites, QRA, EBoD

Please tell us your level of agreement with each of the following statements, if applicable:

KEY LECTURE of the day	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
1. Key lecture content was related clearly to objectives					
2. Details provided in the lectures were appropriate					
3. The level of difficulty of the lectures was appropriate					
4. The workload of the lectures was appropriate					
5. These lectures are relevant to my vocational/professional needs					
Training of Trainers					
1. Module content was related clearly to objectives					
2. Details provided in the module was appropriate					
3. The level of difficulty of the module was appropriate					
4. The workload of the module was appropriate					
5. This module is relevant to my vocational/professional needs					

Please, list the three most useful things you have learned today.

- 1.
- 2.
- 3.

Please list the three least useful topics covered today.

- 1.
- 2.
- 3.

Looking back to the last days...

... please tell us your level of agreement on the following statements of each of the lectures, if applicable:

The session was relevant to my vocation/professional needs	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
Mini lectures on the framework of EH in Europe and beyond					
Roundtable Intersectoral action for environment and health					
Key lecture: Assessing health impacts of air pollution					
Key lecture: Family of impact assessment					
Key lecture: Risk communication and communicating uncertainties					
Key lecture: Environmental health inequalities					
Key lecture: Nanotechnology and health					
Key lecture: Water and sanitation					
Case study: The new public health strategy 2012-20					
Case study: RA of waste burning					
Case studies: Flash floods & mosquito's					
Case study: Air pollution and bottom up HIA					
Case study: HIA implementation					
Case study: Mobile phones and electro magnetic fields					
Case study: HIA of onshore a wind farm					
Case studies: HRA of red sludge catastrophe, climate change					
Module A Health in EIA					
Module B Health in SEA					
Module C1 Contaminated industrial sites					
Module C2 Quantitative risk assessment					
Module C3 Environmental burden of disease					
Training of trainers					

These lectures have covered a variety of topics.

Were there topic areas that you felt were not useful to learn? (Please circle) Yes No

If you answered yes, please list the three least useful topics covered in these lessons:

- 1.
- 2.
- 3.

Were there topic areas that you felt you would like to learn more about? (Please circle) Yes No

If you answered yes, please list the three topic areas that you would like to cover more in details:

- 1.
- 2.
- 3.

Please, list the three most useful things you have learned in the past week.

- 1.
- 2.
- 3.

Still looking back to the last days...

Overall,	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
I was satisfied with the knowledge provided to me.					
I was satisfied with the quality of the lectures and parallel modules.					
I was satisfied with the mixture of key lectures, case studies and more in depth modules.					
I was overwhelmed by the workload during the week.					
I would like to see more similar training opportunities in my country.					
I would like to see more training workshops together with colleagues from the environment and the health sector.					
I would like to see more networking with colleagues from other countries.					
I will engage in EH training in my country in the future.					
It was worth devoting a full week to the training.					
The past week has changed my way of thinking If you agree / strongly agree can you give an example					

If WHO repeats a EH training event in the next years, I would favour	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
Attending an advanced training workshop					
Having other colleagues attending a similar workshop					

Please tell us your level of agreement on the organizational issues	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
I was satisfied with the hotel services					
I was satisfied with the workshop facilities (plenary room / group rooms)					
I was satisfied with the social events during the week.					
I was satisfied with the pre workshop registrations process.					
I would like to see less print-outs.					
I would like to download all presentation hand-outs from the Sharefile.					

We value your opinion and would appreciate your input for improving the course.

Please write your comments what you would like to see changed in possible future workshops in the space provided below.

The WHO Regional Office for Europe

The World Health Organization (WHO) is a specialized agency of the United Nations created in 1948 with the primary responsibility for international health matters and public health. The WHO Regional Office for Europe is one of six regional offices throughout the world, each with its own programme geared to the particular health conditions of the countries it serves.

Member States

Albania
 Andorra
 Armenia
 Austria
 Azerbaijan
 Belarus
 Belgium
 Bosnia and Herzegovina
 Bulgaria
 Croatia
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 Czech Republic
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 Georgia
 Germany
 Greece
 Hungary
 Iceland
 Ireland
 Israel
 Italy
 Kazakhstan
 Kyrgyzstan
 Latvia
 Lithuania
 Luxembourg
 Malta
 Monaco
 Montenegro
 Netherlands
 Norway
 Poland
 Portugal
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 Romania
 Russian Federation
 San Marino
 Serbia
 Slovakia
 Slovenia
 Spain
 Sweden
 Switzerland
 Tajikistan
 The former Yugoslav Republic of Macedonia
 Turkey
 Turkmenistan
 Ukraine
 United Kingdom
 Uzbekistan

More and more, countries are faced with the challenge of addressing the burden of disease arising from environmental exposures. Capacity building in environment and health has been recognized as a critical need among Member States of the WHO European Region, and the European Commission. This report gives an overview on one of the main activities of a capacity building in environment and health (CBEH) project, co-funded by the European Commission, DG Sanco: the international training workshop held 19–23 March 2012 in Riga, Latvia. It summarizes the main activities of the workshop and its final evaluation. The structure of the workshop with key lectures combined with in-depth modules proved effective, for relatively junior professionals as well as for participants with many years of experience in the area of environment and health. For future events it should be considered to provide a similar training to less experienced environment and health professionals, as also the more in-depth modules could only present an introduction into their specific thematic area and in addition to develop an advanced international training workshop with less thematic areas but more in-depth training and a focus on practical applications.

World Health Organization Regional Office for Europe

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