

## AA4: Education, Training and Technical Materials

<b>1</b>	AA4:A1a
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Great Lakes Centers for Occupational and Environmental Health and Safety University of Illinois at Chicago School of Public Health
<b>Project title</b>	Post-Graduate Training in Occupational Medicine in Nicaragua (UNAN Leon)
<b>Keywords</b>	Occupational Medicine, doctors, training
<b>Project leader Email address</b>	Linda Forst <a href="mailto:forst-l@uic.edu">forst-l@uic.edu</a>
<b>Partners (of the CC Network)</b>	Linda Forst, US Catharina Wesseling, Costa Rica
<b>Other partners</b>	Aurora Aragon, UNAN Leon
<b>Funding</b>	Fulbright Senior Specialists program whom does this fund? How are the funds accessed?
<b>Objective of the project</b>	To establish a post-graduate (residency) program for medical doctors in Nicaragua
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Occupational Medicine Residency Program established and doctors enrolled. Number of residents anticipated? Timeline?  Anticipated date of completion: 2009
<b>Target group and/or beneficiaries</b>	Workers in Nicaragua; physicians in Nicaragua. Could serve as a template for other countries
<b>Summary of the project (max 100 words)</b>	Dr. Aurora Aragon has been working in her home country and with SALTRA in Central America (headed by Catharina Wesseling in Costa Rica) to develop post-graduate training in occupational health in Nicaragua at Universidad Nacional Autonoma de Nicaragua—Leon. At present there are only two practicing OM specialists in Nicaragua. The goal of this part of the overall effort is to establish a 4-5 year residency training program for physicians to specialize in Occupational Medicine. Learning objectives, and a list of activities will be written, as well as a scheme for establishing this program under the Nicaraguan system of medical education.
<b>Dissemination</b>	A case report describe these efforts will be disseminated to other collaborating centers to be used as a model in other countries.
<b>Impact (global or regional)</b>	Increased training of medical personnel in OM, increased occupational health services to a needy population, a tested model

	for developing such a program.
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<b>2</b>	AA4:A1b
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Department of Environmental Health Engineering, Sri Ramachandra Medical College & Research Institute, Chennai, India  (Recognition as WHO CC in progress)
<b>Project title</b>	<b>Development of a Example 'Masters in Occupational Medicine' Program in India</b>
<b>Keywords</b>	Occupational Medicine, masters program, residence program, MPH, post-graduate degree
<b>Project leader Email address</b>	Norbert L. Wagner MD PhD; NLWagner@web.de Jayachandran P.; dr_pjaya@yahoo.com
<b>Partners (of the CC Network)</b>	<i>Possible partners (to be confirmed):</i> NIOH (National Institute for Occupational Health) Ahmedabad, India Great Lakes Center for Occupational & Environmental Safety & Health, University of Illinois at Chicago, Chicago, USA NIOH (National Institute for Occupational Health) Johannesburg, South Africa Fogarty International Centre, Dept of Environmental Health Sciences, School of Public Health, University of Michigan Ann Arbor, MI, USA
<b>Other partners</b>	Medical Council of India National Board of Examinations, Ministry of Health, India Indian Association of Occupational Health
<b>Funding</b>	The CC will fund internal and in-country cost for personnel and travel. For international travel the CC will apply for funding.
<b>Objective of the project</b>	The project will be used to develop and implement an expert post-graduate training program for doctors to become specialists in Occupational and Environmental Medicine (OEM) [equivalent to an Indian MD degree or a US residency with board exam]. The students should become the most trained reference persons for prevention of work-related and environmental diseases at the workplace, in the community, in government and public life.  This specialist program should be comparable to requirements of other countries (e.g. European countries).
<b>Project outcome(s)</b>	Syllabus, curriculum, teaching methods & modes and training material of the Master in Occupational Medicine

<b>and deadline(s) for completion of the project</b>	Report and publication on experiences and evaluations Training material appropriate for situations and working conditions in developing countries Program is expected to start Jan 2007.
<b>Target group and/or beneficiaries</b>	Medical professionals in Occupational Health, company doctors
<b>Summary of the project (max 100 words)</b>	In many other developing countries such as in India, the disciplines of Occupational and Environmental Medicine (OEM) are not well established academically if at all. In India such a MD Program for OEM does presently not exist. This MD program would be India's first academic program in OEM. It can and should serve as a model for other developing countries regarding the feasibility, cost, content and practical orientation.  Our suggestion:  As Occupational and Environmental Medicine does not take place in the hospital but in the factories, institutions and organizations, a purely hospital-based training is not appropriate nor desirable.  Usually a MD Program in OEM starts with clinical training, mostly in internal medicine. It is then followed by a one year distance-education theory course (400 hours) and basic workplace training, internships and advanced training modules in Occupational Medicine, Epidemiology, Industrial Hygiene, OSH management etc.  The input of other WHO CCs will be helpful to establish quality, develop the profession and possibly exchange students.
<b>Dissemination</b>	Publication of syllabus, curriculum, teaching methods and training material via GeoLibrary  Publication of experiences and evaluations in scientific literature on medical education
<b>Impact (global or regional)</b>	Global, mainly developing countries

3	<b>AA4:A1c</b>
<b>Activity Area Number and title</b>	<b>AA4: Education, Training and Technical Materials</b>
CC or NGO Name	RAMS Institute of Occupational Health
Project title	Development and approbation of educational modules for postgraduate education in occupational health for specialists of practical services (hygienic assessment, clinical researches, laboratory diagnostics)
Key words	Postgraduate education, occupational health, qualification rise, working conditions; industrial safety, control occupational factors, chemical factors, physical factors, biological factors, health effects, bioethics, methods of assessment
Project leader	N.F. Izmerov
E-mail address	Director of WHO CC in OH RAMS Institute of Occupational

	Health E-mail: <a href="mailto:izmerof@rinet.ru">izmerof@rinet.ru</a> ; <a href="mailto:nkio@ixv.comcor.ru">nkio@ixv.comcor.ru</a>
Partners (of the CC Networks)	Interested specialists and organizations
Other partners	
Funding	State budget
Objective of the project	<p>-To work out and approbate programs-modules for postgraduate education in occupational health for doctors and technical specialists, who work in the area of occupational health with attraction of contemporary methods of hygienic assessment, clinical and laboratory diagnostics.</p> <p>-To raise a qualification in the field of occupational factors parameters control (chemical, physical, biological factors) and working environment and also in the field of diagnostics of professional and work-related diseases.</p> <p>-Educational activity in the area of occupational health bioethics.</p> <p>- To raise a qualification in X-ray diagnostics of professional diseases .</p>
Project outcome(s) and deadline(s) for completion of the project	Results of work will let us develop the educational modules for postgraduate education in occupational health, taking into account a specific character of a country with economy of a transitional period. 2006 - 2010.
Target group and/or beneficiaries	WHO CC in OH in occupational health; Ministry of Health of RF, For specialists of a wide circle, occupied in the different fields of occupational health, doctors specialized in professional pathology.
Summary of the project (max 100 words)	It is proposed to work out a system of education and increase of specialists' qualification in occupational health, which includes questions of hygienic assessment, diagnostics of professional and work-related diseases and also methods of laboratory diagnostics. Works according to project are to focus on working out of programs and methods, selection and substantiation of education form (for example – external courses, seminars, lectures or external education – distant education through Internet and etc.), organization aspects of such activity. Equally with it a program of educational activity in the field of bioethics in occupational health is proposed to be worked out, this program will be directed to attract attention and to inform on problems of bioethics in occupational health of specialists and wide strata of public. Programs are to include a choice of auditorium, having a special purpose; (workers and employers, doctors specialized in professional pathology, hygienists or specialists in bioethics), apportionment of a basic circle of pressing questions of occupational bioethics, working out of a complex of educational measures corresponding to interests

	of auditorium, having a special purpose.
Dissemination	Organizations and establishments in the field of public health, including specialized
Impact (global or regional)	Global

<b>4</b>	AA4:A1d
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Institute and Outpatient Clinic for Occupational and Environmental Medicine, University of Munich, Ziemssenstr. 1, D-80336 Munich
<b>Project title</b>	NetWoRM – Netbased Training of Work-Related Medicine
<b>Keywords</b>	web-based learning – case-based training – international programme – teaching
<b>Project leader Email address</b>	Dr. Katja Radon MSc, Dr. Stefanie Kolb, Dr. Jörg Reichert <a href="mailto:katja.radon@med.uni-muenchen.de">katja.radon@med.uni-muenchen.de</a>
<b>Partners (of the CC Network)</b>	Finish Institute for Occupational Health Helsinki Institute of Occupational Health Sciences (IOHS) Lausanne Institute of Occupational Health, University of Birmingham National Institute for Occupational Safety & Health (NIOSH),
<b>Other partners</b>	Schools/Institutes for Occupational Medicine in: Austria, Poland, Romania, France, Great Britain, Belgium, Spain, Finland, Switzerland, Croatia, USA, Canada, Columbia, Israel, India, South Africa
<b>Funding</b>	EU Minerva Programm Klaus Tschira Foundation gGmbH Virtual University of Bavaria Lieselotte und Dr. Karl Otto Winkler Foundation
<b>Objective of the project</b>	Creation and dissemination of web-based learning modules in occupational medicine, sharing of multimedia material
<b>Project outcome(s) and deadline(s) for</b>	So far, 19 cases are available in German. In addition, all partners have created up to two new cases. These cases are

<b>completion of the project</b>	currently being translated into English. This English “standard version” is then translated into the local languages (English, French, Spanish, Polish, Romanian, German) and adapted to the local requirements. After validation by two experts the cases are implemented into training and evaluated by users. (www.casus.net; login: “who-ce”; password: “occupation”). In addition, the first case for pupils and vocational trainees has been developed.
<b>Target group and/or beneficiaries</b>	Medical students; health care professionals learning occupational medicine
<b>Summary of the project (max 100 words)</b>	Occupational medicine has a wide range of aspects, and prevention is a major topic. In order to enhance the learning experience and to integrate patient-oriented and practical knowledge, we developed a case and web-based distance-learning tool. This was implemented in our regular training (lectures, small group sessions, factory visits) and offered to other German universities. The web-based training programme in occupational medicine, primarily developed for medical students, has been adapted for training of health care professionals and the international use. The international network has started within the Socrates programme of the EU. In addition, cases are used in secondary schools and vocational schools.
<b>Dissemination</b>	<a href="http://www.networm-online.de">www.networm-online.de</a>
<b>Impact (global or regional)</b>	Better knowledge about occupational medicine and occupational safety for medical students and physicians.

<b>5</b>	AA4:A1e
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Nofer Institute of Occupational Medicine, Lodz, Poland
<b>Project title</b>	Utility of competencies acquired during specialization training in occupational medicine - evaluation an self-evaluation tool
<b>Keywords</b>	occupational medicine/health; specialization training; utility of competencies; evaluation of competencies
<b>Project leader Email address</b>	Andrzej Boczkowski, PhD abocz@imp.lodz.pl
<b>Partners (of the CC Network)</b>	To be identified
<b>Other partners</b>	University of Glasgow
<b>Funding</b>	Funding for first phase will be secured through Nofer Institute of Occupational Medicine

<b>Objective of the project</b>	Elaboration and validation of evaluation and self-evaluation tools for occupational medicine physicians concerning utility of their competencies
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>• To develop the evaluation and self-evaluation tools that will be readily usable and user-friendly (2007)</li> <li>• To develop evaluation packages for the above tools deliverable through e-learning and face-to-face (2008)</li> <li>• To integrate the evaluation tools in the provision of basic occupational health services (2009)</li> </ul>
<b>Target group and/or beneficiaries</b>	Physicians - specialists in occupational medicine/health; centers of the training in occupational medicine/health
<b>Summary of the project (max 100 words)</b>	The cognitive and practical aim of the project is objective identification and description of anachronisms, faults and inadequacies existing in the specialists' training programs in the field of occupational medicine/health as well as obtaining from practicing occupational/health physicians their postulates concerning the contents of these training programs. The research and consultations cycles are provided to develop and validate in practice the evaluation and self-evaluation tools and procedures enabling collection of data among occupational/health specialists and the flow of information to the training centers
<b>Dissemination</b>	Training materials and documents; occupational/health physicians meetings
<b>Impact (global or regional)</b>	regional

<b>6</b>	AA4: A1f
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Institut universitaire romand de Santé au Travail, University of Lausanne, Lausanne, Switzerland (IURST) Institute of Occupational and Radiological Health (IORH), Belgrade, Serbia and Montenegro
<b>Project title</b>	DEVELOPMENT OF CORE CURRICULUM IN OCCUPATIONAL HEALTH
<b>Keywords</b>	Core competencies, Core curriculum, Harmonization
<b>Project leader</b>	Prof. Brigitta Danuser, MD, PhD IURST
<b>Email address</b>	Prof. dr Petar Bulat, IORH, <a href="mailto:bulatp@eunet.yu">bulatp@eunet.yu</a>
<b>Partners (of the CC Network)</b>	IORH, Occupational Health Department, Faculty of Medicine, University of Belgrade, Belgrade, Serbia and Montenegro, Institut universitaire romand de Santé au Travail (IST), Lausanne, Switzerland, Department of Occupational Medicine
<b>Other partners</b>	Faculty of Medicine, University "Sts. Cyrill and Methodius"

	- Skopje, Macedonia, Department for Environmental and Occupational Health, Andrija Stampar School of Public Health, University of Zagreb, Croatia
<b>Funding</b>	Swiss National Science Foundation Bern (Switzerland) granted 90.000 Swiss francs.
<b>Objective of the project</b>	Harmonization of occupational medicine curriculum in Eastern European countries and improvement of the occupational health knowledge transfer to other stakeholders in work and health
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Identification of the common core competencies required for occupational specialists (physicians, hygienists, inspectors) in Eastern Europe (by 2008) Development of a core curriculum for education and training in occupational health (by 2009)
<b>Target group and/or beneficiaries</b>	Occupational specialists (physicians, hygienists, inspectors)
<b>Summary of the project (max 100 words)</b>	The proposed activities are divided into two groups: (1) Development of core curriculum in occupational health and (2) Building-up of a database of case studies. The first set of activities includes workshops for situation analysis and needs assessment, development of core curriculum and preparation of teaching materials. The second set of activities includes preparation of guidelines for case studies, collection, review and publishing of the case studies. The database is seen as a dynamic, searchable and updatable tool for improvement of access to study materials and of the efficiency in occupational health education and training.
<b>Dissemination</b>	Workshops, Regional Summer Schools, Partner Country Meetings, Teaching materials
<b>Impact (global or regional)</b>	regional

<b>7</b>	AA 4:A2
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Department of Environmental Health Engineering, Sri Ramachandra Medical College & Research Institute, Chennai, India (Recognition as WHO CC in progress)
<b>Project title</b>	<b>Development and Implementation of Occupational Health Nursing Program</b>
<b>Keywords</b>	Occupational Health, nursing, advanced nursing practice, post-graduate degree,

<b>Project leader</b>	Norbert L. Wagner MD PhD; NLWagner@web.de
<b>Email address</b>	Zareen Mohammed MD MSc in Occ Med; zareenmohamed@hotmail.com
<b>Partners (of the CC Network)</b>	<i>Possible partners (to be confirmed):</i> FIOH, Helsinki, Finland IUSTE Strasbourg, France
<b>Other partners</b>	Indian Council of Nursing University of North Carolina, NC OSHERC
<b>Funding</b>	The CC will fund internal and in-country cost for personnel and travel. For international travel the CC will apply for funding.
<b>Objective of the project</b>	The project will be used to develop and implement a post-graduate certificate training program for nurses to become nurse specialists in Occupational and Environmental Health.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>- Syllabus, curriculum, teaching methods and training material of the Occupational &amp; Environmental Health Nursing Program</li> <li>- Report and publication on experiences and evaluations</li> <li>- Training material appropriate for situations and working conditions in developing countries</li> </ul> <p>Program is expected to start Jan 2007.</p>
<b>Target group and/or beneficiaries</b>	Primary: Nurses who work in occupational health as occupational health nurses or nurse aids. Secondary: employers, workers
<b>Summary of the project (max 100 words)</b>	<p>A curriculum for a six month post-graduate certificate course for nurses to become nurse specialists in Occupational &amp; Environmental Health (OHN) will be developed (till end of 2006). The course is supposed to start in 2007. The timeframe is in accordance to the regulations of the Indian Council of Nursing.</p> <p>The input of other WHO CCs will be helpful to establish quality, develop the profession and possibly exchange students.</p> <p>This OHN program would be India's first academic program in OEH for nurses. It can and should serve as a model for other developing countries regarding the feasibility, cost, content and practical orientation.</p>
<b>Dissemination</b>	<p>Publication of syllabus, curriculum, teaching methods and training material via GeoLibrary</p> <p>Publication of experiences and evaluations in scientific and secondary literature on medical education</p>

<b>Impact (global or regional)</b>	Global, mainly developing countries
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<b>8</b>	AA4: A3a
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Institute of Occupational Health Sciences, Lausanne, Switzerland
<b>Project title</b>	Harmonization of education and training in occupational hygiene and safety in the European region
<b>Keywords</b>	Occupational hygiene, safety, curriculum, education material, short courses, harmonization, mutual recognition
<b>Project leader Email address</b>	Prof. Michel Guillemin Email address : Michel.Guillemin@hospvd.ch
<b>Partners (of the CC Network)</b>	IOHA and other interested partners (to be defined)
<b>Other partners</b>	Professional associations, ENSHPO ?, AISS ?, EASOM ? others ?
<b>Funding</b>	Grants to be found from interested parties
<b>Objective of the project</b>	Identify the relevant actors (experts, too often called “competent persons”), clarify their respective role and competencies and find an international consensus
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>• To develop a European network of educational centers sharing the same pedagogical objectives (by 2008)</li> <li>• To develop training packages deliverable through e-learning and/or face-to-face (by 2010)</li> <li>• To promote real multidisciplinary approaches by publishing a set of case field studies</li> </ul>
<b>Target group and/or beneficiaries</b>	States and agencies. Enterprises and social partners.
<b>Summary of the project (max 100 words)</b>	Beside Occupational Medicine which is clearly defined in terms of field and competencies, the other professions related to health and safety are not at all well defined. This leads to inadequate work practice and inefficient risk management. This project will build up of a network of educational centers willing to improve the situation and to find a consensus for the education of health and safety specialists. A redefinition of the professions is urgently needed to solve the problems related to hygiene, ergonomics, psychology, economics which need to be included in the curricula of “generalists” adequate for SMEs. Appropriate courses and materials will be developed.
<b>Dissemination</b>	Usual channels : WHO and ILO documents, articles in peer reviewed journals, conferences and workshops, press

	releases, etc.
<b>Impact (global or regional)</b>	Regional

<b>9</b>	<b>AA4:A3b</b>
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Center of Environmental and Occupational Health National Institute of Health – Porto, Portugal
<b>Project title</b>	Training materials
<b>Keywords</b>	
<b>Project leader Email address</b>	
<b>Partners (of the CC Network)</b>	
<b>Other partners</b>	University of Porto (Biomedical School and Medical Faculty) Health Technology School
<b>Funding</b>	Portuguese Government
<b>Objective of the project</b>	Pos-Graduate Course on Occupational Medicine Master Degree on Public Health (Occupational Health) Occupational Hygiene and Safety training
<b>Project outcome(s) and deadline(s) for completion of the project</b>	
<b>Target group and/or beneficiaries</b>	Occupational physicians Public health technicians Safety engineers Occupational hygienists
<b>Summary of the project (max 100 words)</b>	Training modules: <ul style="list-style-type: none"> <li>- Occupational health: 48 horas</li> <li>- Safety and occupational hygiene: 108 horas</li> <li>- Safety and Health in Lab: 30 horas</li> <li>- Safety and Health in Health Care Units</li> </ul>
<b>Dissemination</b>	Training material in portuguese language (for African countries with portuguese language)
<b>Impact (global or regional)</b>	Global

<b>10</b>	AA4:A4a
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Great Lakes Centers for Occupational and Environmental Health and Safety University of Illinois at Chicago School of Public Health
<b>Project title</b>	Distance Education in Occupational and Environmental Health in Israel and the Palestinian Authority
<b>Keywords</b>	Distance Education, occupational health, Training in the middle east
<b>Project leader Email address</b>	Linda Forst <a href="mailto:forst-l@uic.edu">forst-l@uic.edu</a>
<b>Partners (of the CC Network)</b>	Any recommendations?
<b>Other partners</b>	Khuloud Dajani, Dean, Al Quds University School of Public Health; Rafael Carel, Professor, Haifa Univeristy, Israel
<b>Funding</b>	Have applied to MERC
<b>Objective of the project</b>	To establish online teaching expertise for occupational and environmental health faculty in two mid-eastern universities; to foster collaboration between the Palestinian Authority and Israel
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Online courses and expertise among faculty members. Timeline.  Anticipated date of completion: 2008 (depends on funding)
<b>Target group and/or beneficiaries</b>	Faculty and students in Middle East
<b>Summary of the project (max 100 words)</b>	A proposal has been submitted to obtain funding for developing an online course with faculty from two universities in Israel and the PA.
<b>Dissemination</b>	A description of this model will be presented at international conferences and in the peer-reviewed literature.
<b>Impact (global or regional)</b>	It is anticipated that this expertise could be carried over to other Mideast countries, and using Arabic language.

<b>11</b>	AA4:A4b
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Great Lakes Centers for Occupational and Environmental

	Health and Safety University of Illinois at Chicago School of Public Health
<b>Project title</b>	Distance Education in Occupational Health
<b>Keywords</b>	Occupational health, training, public health
<b>Project leader Email address</b>	Linda Forst <a href="mailto:forst-l@uic.edu">forst-l@uic.edu</a>
<b>Partners (of the CC Network)</b>	Norbert Wagner, Chennai India
<b>Other partners</b>	
<b>Funding</b>	Unclear, what funding is needed to do this?
<b>Objective of the project</b>	To train teachers in developing and conducting online education in Occupational Health
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Increased international expertise in online teaching timeline  Anticipated date of completion: 2010
<b>Target group and/or beneficiaries</b>	Teachers of occupational health
<b>Summary of the project (max 100 words)</b>	Linda Forst and Norbert Wagner have been teaching occupational and environmental health on line using the Blackboard learning platform. The goal is to help university faculty use this modality for teaching occupational health. Plans are being made to establish 1-2 day workshops at international conferences where interested parties will come to computer labs with a set of learning objectives, text/resource materials, and learn to mock up a semester long course in Blackboard.
<b>Dissemination</b>	Will advertise courses. Will conduct "CE" activity at ICOH meeting? Meeting of academics?
<b>Impact (global or regional)</b>	Increased availability of courses in occupational health, worldwide.

<b>12</b>	<b>AA4:A5a</b>
<b>Activity Area Number and title</b>	<b>AA4: Education, Training and Technical Materials</b>
<b>CC or NGO Name</b>	Central American Institute for Studies on Toxic Substances (IRET)
<b>Project title</b>	Strengthening of occupational and environmental health research in Central America and the Caribbean

<b>Keywords</b>	Central America, Caribbean, Research, Occupation, Environment
<b>Project leader Email address</b>	Dr. Catharina Wesseling ( <a href="mailto:ineke_wesseling@yahoo.com">ineke_wesseling@yahoo.com</a> ) Dr. Luisa Castillo ( <a href="mailto:lcastill@una.ac.cr">lcastill@una.ac.cr</a> )
<b>Partners (of the CC Network)</b>	Karolinska Institute, National Institute of Working Life (Sweden), University of Texas.
<b>Other partners</b>	University of Washington, Stockholm University, Central American universities
<b>Funding</b>	SAREC, Sida, collaborating institutes
<b>Objective of the project</b>	Generation and strengthening of qualified human resources and scientific-technical knowledge for occupational and environmental health in Central America.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Continuous
<b>Target group and/or beneficiaries</b>	Scientists and science administrators in Central America
<b>Summary of the project (max 100 words)</b>	Project scope: <ul style="list-style-type: none"> <li>- Multicentric and bilateral research projects in Central America</li> <li>- Central American research training programs</li> <li>- Establishment of a Central American scientific-professional network</li> </ul>
<b>Dissemination</b>	Academic, technical and popular dissemination
<b>Impact (global or regional)</b>	Regional

<b>13</b>	AA 4:A5b
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Occupational and Environmental Health Research Unit Univ Cape Town SA
<b>Project title</b>	OHS capacity development (research, training and service development)
<b>Keywords</b>	Education, training, capacity development in teaching

	research and service.
<b>Project leader Email address</b>	Professor J Myers myers@cormack.uct.ac.za
<b>Partners (of the CC Network)</b>	University of Michigan School of Public Health
<b>Other partners</b>	
<b>Funding</b>	Funding is part of the normal University system apart from scholarship and bursary funding which may be sought from time to time for a number of training slots or for specific candidates.
<b>Objective of the project</b>	Postgraduate training programme at Masters level (linked with a Postgraduate Diploma (DOH)) in occupational health (MPhil) and an occupational medicine specialist training programme (MMed)
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>• To train 4 – 6 MPhils in over a 2 to 3 year period</li> <li>• To train 4 MMeds over the next 4 years</li> </ul>
<b>Target group and/or beneficiaries</b>	Occupational and environmental health and other appropriately qualified professionals wishing to engage in serious study at the postgraduate level with a view to obtaining research, teaching and service provision skills. The MPhil will serve mainly as a vehicle for non-medical students while the MMed will cater exclusively to medical graduates.
<b>Summary of the project (max 100 words)</b>	Two new programmes will commence from 2006 for appropriately qualified typically medical and non-medical graduates seeking to enroll in postgraduate study at the University of Cape Town. The first is an Masters of Philosophy degree in Occupational Health which is a research masters with 50% dissertation requirement interlinked with a postgraduate Diploma programme and is aimed at occupational health professionals and managers in the public and private sectors. The second is a Masters of Medicine in Occupational Medicine aimed at medical graduates and at producing a specialist cadre in the region.
<b>Dissemination</b>	A combination of formal face to face and distance learning in formal postgraduate programmes at the University of Cape Town
<b>Impact (global or regional)</b>	Regional

<b>14</b>	AA 4:A6
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Occupational and Environmental Health Research Unit, Univ Cape Town, South Africa
<b>Project title</b>	Supplementary modular development of postgraduate study in occupational and environmental health
<b>Keywords</b>	Educational technology, e-learning, occupational health, environmental health, training
<b>Project leader Email address</b>	Professor J Myers myers@cormack.uct.ac.za
<b>Partners (of the CC Network)</b>	
<b>Other partners</b>	
<b>Funding</b>	Funding is currently being sought for the development of further modules suitable for offering in the context of postgraduate programmes at University level, and also possibly at lower levels. Funding is also being sought for maintenance and improvement of existing materials.
<b>Objective of the project</b>	To provide a resource for occupational and environmental health training at postgraduate level in additional topics to those already developed and at different levels of complexity and depth for different target audiences.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>• To develop supplementary modular materials on CD Rom or other appropriate online learning platforms on a steady basis from 2006 to 2010</li> <li>• To use this package in face to face and also distance learning as part of formal postgraduate occupational health training and also by stand-alone modular training to appropriate health professionals at different levels</li> </ul>
<b>Target group and/or beneficiaries</b>	All occupational and environmental health professionals mainly those at postgraduate level in the university sector, as well as specific groups of professionals operating at other levels – for instance factory inspectors or state sector employees working in these areas.
<b>Summary of the project (max 100 words)</b>	8 modules covering occupational and environmental health topics have been developed for a postgraduate diploma in occupational health. The intention is to supplement these by breadth of coverage and/or by depth in order to round out

	the syllabus for the coursework masters programme level of postgraduate training. Target audiences at different levels such as factory inspectors of government employees responsible for the area are also envisaged with appropriate modification of materials. Maintenance of updating of existing materials is included. Training software to be provided on CD Rom or online learning platforms as appropriate.
<b>Dissemination</b>	Via stand-alone modular training packages or as part of formal postgraduate study.
<b>Impact (global or regional)</b>	Regional and possibly global

<b>15</b>	AA4:CE1a
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Swedish Natl Inst for Working Life
<b>Project title</b>	Advanced International Training Programme in Occupational Safety and Health & Development
<b>Keywords</b>	Training, development, project
<b>Project leader Email address</b>	Nils F Petersson; ocka@niwl.se
<b>Partners (of the CC Network)</b>	Swedish Work Environment Authority
<b>Other partners</b>	
<b>Funding</b>	Sida – Swedish International Development Cooperation Association
<b>Objective of the project</b>	Train 24 OSH experts in Latin America
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Each participant will have carried out an individual development project at her/his workplace. Programme starts October 2006 and ends November 2008 Another Programme for Africa starts 2007 and ends 2009; A third Programme for Asia starts 2008 and ends 2010
<b>Target group and/or beneficiaries</b>	OSH experts in the region
<b>Summary of the project (max 100 words)</b>	Two years Training Programme in Occupational Safety and Health & Development for Latinamerica, Africa and Asia respectively. 24 participants for each of the three Programmes. The objective is that each participant will be able to plan, carry out and evaluate a practical development project.

<b>Dissemination</b>	Through Swedish Embassies and former participants
<b>Impact (global or regional)</b>	Regional impact in the participants' countries

<b>16</b>	AA4:CE1b
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	ISPESL – Italy
<b>Project title</b>	METROnet: joint training programme
<b>Keywords</b>	Occupational Safety and Health, Training
<b>Project leader Email address</b>	Sergio Iavicoli, MD PhD seriav@iol.it
<b>Partners (of the CC Network)</b>	INRS – France and INSHT – Spain
<b>Other partners</b>	ISHST – Portugal
<b>Funding</b>	Self-funding
<b>Objective of the project</b>	Training for Occupational Safety and Health professionals to develop prevention of emerging and traditional occupational risks
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Advanced courses will be organized each year. No deadline is planned: scheduled until at least 2010
<b>Target group and/or beneficiaries</b>	Physicians, Hygienists, Risk Assessment Experts, Managers and Researchers
<b>Summary of the project (max 100 words)</b>	The courses are organized on international basis. They consist of presentations followed by a discussion with the speakers; practical sessions may be also scheduled. The first advanced course was organized in 2005 on occupational cancer and chemical risk. The next one will be organized in 2006 on occupational exposure to nanoparticles.
<b>Dissemination</b>	Courses, presentations, documents
<b>Impact (global or regional)</b>	Global

<b>17</b>	AA4: CE1c
<b>Activity Area Number and title</b>	4 Education, training and technical materials
<b>CC or NGO Name</b>	Coronel Institute of Occupational Health AMC, University of Amsterdam, The Netherlands
<b>Project title</b>	Electronic lesson on evidence-based medicine for occupational health professionals
<b>Keywords</b>	Evidence-based medicine, occupational health, distant learning, electronic lesson, training material
<b>Project leader Email address</b>	Prof. Dr. Frank van Dijk f.j.vandijk@amc.nl

<b>Partners (of the CC Network)</b>	To be asked: FIOH, Finland (Vainio) To be asked: Federal Institute OSH, Germany (Bieneck) To be asked: CCOHS, Canada (Abeytunga)
<b>Other partners</b>	Netherlands School of Public and Occupational Health (NSPOH) Amsterdam, The Netherlands (Van der Klink and Vlek, agreed) European Association of Schools of Occupational Medicine, EASOM (Weel, agreed) To be asked: University of Modena, Italy (Franco) To be asked: University of Cape Town, South Africa (Myers) To be asked: University Manchester, UK (Agius)
<b>Funding</b>	Funding for first phase, the development of the electronic lesson has been organized by the Coronel Instituut and NSPOH and has been sponsored by the Dutch Ministry of Social Affairs and Employment; the lesson is now available in Dutch language. The funding for the translation is not yet available
<b>Objective of the project</b>	Development of an English version of an available electronic lesson on evidence-based medicine for occupational health
<b>Project outcome(s) and deadline(s) for completion of the project</b>	To develop an English version of an electronic lesson on evidence-based medicine for occupational health. A Dutch version has been completed in 2005. The English version can be completed in 2006. To inform professionals and collaborating centers about the availability of this lesson (by 2006 and 2007) To strengthen the impact of the publication in 2006 of 'How to use research information to improve the quality of occupational health practice. Protecting Workers' Health Series WHO Occupational and Environmental Health Programme (Eds Verbeek, Van Dijk)
<b>Target group and/or beneficiaries</b>	1. Occupational health professionals in practice, especially occupational physicians but also other disciplines such as occupational hygienists, toxicologists, occupational psychologists, ergonomists, occupational health nurses, safety experts 2. Experts, scientific institutes, guideline offices and panels of experts in occupational health, who are not experienced in evidence-based medicine
<b>Summary of the project (max 100 words)</b>	Knowledge is basic for occupational health professionals. Finding information in scientific articles and practice guidelines is crucial. The skills in professional practice and in expert centers of occupational health, to find and appraise the quality of sources are poor developed. In the Netherlands an electronic lesson has been developed about evidence-based medicine, tailor-

	made for occupational health, that is soon available for free through Internet. This lesson will be translated and edited in English for international target groups of professionals and experts. An international group of national experts has to evaluate the draft lesson to make the lesson appropriate for international audience.
<b>Dissemination</b>	Website WHO, ICOH meetings and congresses, announcements in professional journals, crossreferences in the Technical Report in preparation by WHO 'How to use research information to improve the quality of occupational health practice' (2006).
<b>Impact (global or regional)</b>	Global

<b>18</b>	<b>AA4:CE2a</b>
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Nofer Institute of Occupational Medicine, Lodz, Poland
<b>Project title</b>	Preventive programme designed to reduce musculoskeletal pain for construction workers and students of construction schools
<b>Keywords</b>	Manual materials handling, ergonomics, WMSDisorders, RSI,
<b>Project leader Email address</b>	Zbigniew W. Józwiak, PhD.,Eng. <a href="mailto:zbyszekj@imp.lodz.pl">zbyszekj@imp.lodz.pl</a>
<b>Partners (of the CC Network)</b>	To be identified
<b>Other partners</b>	National Labour Inspectorate
<b>Funding</b>	Project is financed by the Nofer Institute of Occupational Medicine, Lodz, Poland
<b>Objective of the project</b>	Preventive programme
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>• To develop a programme that will be user-friendly (by 2008)</li> <li>• To develop training packages for the toolkit deliverable through e-learning and face-to-face (by 2009)</li> <li>• To integrate the toolkit in the provision of construction workers and students (beginning in 2009)</li> </ul>
<b>Target group and/or beneficiaries</b>	Construction workers, students of construction schools
<b>Summary of the project (max 100 words)</b>	The preventive programme for construction workers and students will help to reduce physical overload and prevalence of musculo-skeletal symptoms in this workers. A programme will consists of two main elements: theoretical training and a set of physical exercises. The theoretical training comprises:

	<ul style="list-style-type: none"> <li>• basic information on the anatomy of the musculo-skeletal system</li> <li>• ways to avoid static loads</li> <li>• use of professional and ad hoc means to simplify manual lifting and handling of weights</li> <li>• a set of simple physical exercises to be performed at home without the need to use special appliances. The set includes both relaxing and fitness exercises promotion of physical exercise during leisure time.</li> </ul>
<b>Dissemination</b>	Worker and enterprise meetings and trainings, special lessons entitled Ergonomics in construction sector, papers in journals for occupational safety staff
<b>Impact (global or regional)</b>	global

<b>19</b>	<b>AA4:CE2b</b>
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	<ul style="list-style-type: none"> <li>• High Institute for Management , National Institute Health, Porto. Portugal</li> <li>• Instituto Superior De Gestao (ISG)</li> </ul>
<b>Project title</b>	Distance Learning in ergonomics for Portuguese speaking countries in Africa
<b>Keywords</b>	Ergonomics, distance learning.
<b>Project leader Email address</b>	Anabela Simoes, <a href="mailto:asimoes@fmh.utl.pt">asimoes@fmh.utl.pt</a>
<b>Partners (of the CC Network)</b>	
<b>Other partners</b>	University of Nottingham, UK.
<b>Funding</b>	Self funding
<b>Objective of the project</b>	To translate an existing respected Distance Learning program from English to Portuguese for use in Africa
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<p>Formalise the agreement between the IEA and both universities by December 2005.</p> <p>Complete the first draft of the translation into Portuguese September 2006.</p> <p>Pilot the program in Mozambique or Angola by April 2007</p>
<b>Target group and/or</b>	Worker representatives, students and supervisors

<b>beneficiaries</b>	
<b>Summary of the project (max 100 words)</b>	<b>Abstract. The development of a basic introductory training program in ergonomics is not available in Portuguese suitable for developing countries. The University of Nottingham has developed and offered a distance learning course which they have offered for translation. This will then enable countries in Africa to utilise the course. An expectation exists that a proportion of the students would continue with further studies leading to formal qualifications</b>
<b>Dissemination</b>	<b>National Institute of Health Instituto Superior De Gestao (ISG) – High Institute for Management – Porto, Portugal.</b>
<b>Impact (global or regional)</b>	<b>Africa</b>

<b>20</b>	<b>AA 4: CE2c</b>
<b>Activity Area Number and title</b>	<b>AA4: Education, Training and Technical Materials</b>
<b>CC or NGO Name</b>	National Institute for Occupational Health (NIOH), SA
<b>Project title</b>	Ergonomics and musculoskeletal disorders
<b>Keywords</b>	Ergonomics, ergonomic risk factors, musculoskeletal disorders
<b>Project leaders Email address</b>	Ms. Busisiwe Nyantumbu <a href="mailto:busisiwe.nyantumbu@nioh.nhls.ac.za">busisiwe.nyantumbu@nioh.nhls.ac.za</a> Ms. Sindiswa Dyosi <a href="mailto:sindiswa.dyosi@nioh.nhls.ac.za">sindiswa.dyosi@nioh.nhls.ac.za</a>
<b>Partners (of the CC Network)</b>	Institute of Occupational and Environmental Medicine, University of Birmingham (UK) to be approached National Institute of Working Life (Sweden) to be approached
<b>Other partners</b>	
<b>Funding</b>	National Institute for Occupational Health (NIOH)
<b>Objective of the project</b>	Prevent musculoskeletal disorders and thereby improve working life.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	1. Produce a toolkit to be used in education and training of workers 2006 2. Train the trainers in the application of the toolkit 2007- 3. Produce information materials (posters and 010

	brochures)
<b>Target group and/or beneficiaries</b>	Office workers, computer users, laboratory workers
<b>Summary of the project (max 100 words)</b>	Musculoskeletal problems are a huge problem in many developed countries. Although there is dearth of information about musculoskeletal problems in the developing world, it is expected to be worse because of lack of infrastructure and resources. The prevention of musculoskeletal disorders by applying ergonomic principles and also training the workers is important. This will prevent the pain, suffering, disability and possible early retirement caused by these disorders. Also cost saving benefits due to medical treatment and compensation. In this project education and training of workers utilizing an ergonomic toolkit for computer and laboratory work will be done. The project will be conducted at the National Health Laboratory Service (NHLS) laboratories which will be used as a model to be applied to other computer workstation and laboratory settings in South Africa and SADC countries.
<b>Dissemination</b>	Presentations at meetings and workshops of unions, worker organizations and professional societies
<b>Impact (global or regional)</b>	Regional

<b>21</b>	AA4:CE3a
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Institute of Work, Health & Organisations, University of Nottingham
<b>Project title</b>	Development of training packages for the Psychosocial Risk Management toolkit, deliverable through e-learning and face-to-face
<b>Keywords</b>	Training package, psychosocial risk management toolkit
<b>Project leader Email address</b>	Dr Stavroula Leka <a href="mailto:Stavroula.Leka@nottingham.ac.uk">Stavroula.Leka@nottingham.ac.uk</a>
<b>Partners (of the CC Network)</b>	FIOH – Finland BAuA – Germany

	ISPEL - Italy TNO - Netherlands National Institute for Working Life – Sweden
<b>Other partners</b>	
<b>Funding</b>	Funding for first phase has been secured through SALTSA (Sweden)
<b>Objective of the project</b>	Development of comprehensive training packages to support the psychosocial risk management toolkit that will be developed by the same group
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>To develop training packages for the toolkit deliverable through e-learning and face-to-face (by 2009)</li> </ul>
<b>Target group and/or beneficiaries</b>	All enterprises – especially those where expertise is missing such as SMEs
<b>Summary of the project (max 100 words)</b>	
<b>Dissemination</b>	WHO/ILO documents; University studies, publications; worker and enterprise meetings; newsletters and press releases; websites
<b>Impact (global or regional)</b>	Global

<b>22</b>	<b>AA4:CE3b</b>
<b>Activity Area Number and title</b>	<b>AA4: Education, Training and Technical Materials</b> This was originally submitted to AA3
<b>CC or NGO Name</b>	National Institute for Occupational Safety and Health (NIOSH) (USA)
<b>Project title</b>	<i>Road safety toolkits for organizations whose employees travel abroad within the PAHO region</i>
<b>Keywords</b>	Occupational safety, road safety and security, employees working abroad, educational materials
<b>Project leader</b>	Stephanie Pratt (NIOSH)
<b>Email address</b>	<a href="mailto:sgp2@cdc.gov">sgp2@cdc.gov</a>
<b>Partners (of the CC Network)</b>	Pan American Health Organization (PAHO) Industrial Accident Prevention Association (IAPA, Canada)
<b>Other partners</b>	U.S. Department of State (contacted)
<b>Funding</b>	NIOSH can provide start-up funding during 2007 and 2008
<b>Objective of the project</b>	The objective of the project is to develop a toolkit that provides information on road safety and security to employees working abroad in the Americas.
<b>Project outcome(s) and deadline(s) for completion of the</b>	Develop a draft toolkit for stakeholder review (2007-2008)

<b>project</b>	Finalize products based on review (2008)  Adapt products for Internet access from NIOSH, PAHO, and stakeholder Web sites (2009)
<b>Target group and/or beneficiaries</b>	All organizations with international operations in the Americas will benefit. Small and medium-sized firms with few resources to devote to worker safety do not provide employees who travel abroad with information on road safety and security, especially for those who travel to low- or middle-income nations. Even large organizations with comprehensive road safety programs for domestic employees may not adequately address this issue for employees who travel abroad.
<b>Summary of the project (max 100 words)</b>	In collaboration with PAHO and other interested groups in the PAHO region, we propose to develop tool kits that could be used by businesses, governments, and NGOs to provide information on roadway safety and security for employees who travel abroad within the PAHO region. The toolkit will include information on traffic laws and penalties, personal safety while on the roadway, use of private and public transportation modes, and special safety and health concerns of business travelers. Products will be specific to each nation, and will be made available in English, Spanish, Portuguese, and possibly French.
<b>Dissemination</b>	Products will be disseminated in printed form to trade associations, labor organizations, and individual mailing lists of organizations. They will also be made available via the Internet through NIOSH, PAHO, and other stakeholders' Web sites.
<b>Impact (global or regional)</b>	Regional (PAHO region)

<b>23</b>	AA 4: CE4a
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	National Institute for Occupational Health (NIOH), SA
<b>Project title</b>	Silica, silicosis and tuberculosis
<b>Keywords</b>	Practical solutions, dust control, prevention of tuberculosis, training materials, managers, workers, practitioners, inspectorate
<b>Project leader Email address</b>	Prof. David Rees <a href="mailto:david.rees@nioh.nhls.ac.za">david.rees@nioh.nhls.ac.za</a>
<b>Partners (of the CC Network)</b>	1. NIOH, South Africa 2. NIWL - National Institute for Working Life, Sweden

<b>Other partners</b>	<ol style="list-style-type: none"> <li>1. University of the Witwatersrand, South Africa</li> <li>2. Occupational Health Management Board, Zambia</li> <li>3. Eduardo Mondlane University, Mozambique</li> <li>4. National Institute for Public Health, Sweden</li> </ol>
<b>Funding</b>	The project is funded through the Swedish International Development Cooperation Agency and is a component of the Work and Health in Southern Africa (WAHSA) Programme, and supported by the NIOH, South Africa.
<b>Objective of the project</b>	<p>Develop education, training and technical materials for</p> <ul style="list-style-type: none"> <li>▪ The reduction of silica dust exposure in key industries in the region</li> <li>▪ Improved prevention of tuberculosis in silica exposed workers</li> </ul>
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>• A training course for OHS inspectors on the measurement and control of dust by mid-2006. Presented in 3 countries by end 2006</li> <li>• A costed and tested set of practical solutions for dust control in the quarry industry appropriate for the region by end 2007.</li> <li>• Information materials for workers, managers and practitioners by end 2007</li> <li>• Information materials on chemoprophylaxis for silica exposed workers for practitioners by end 2007.</li> </ul>
<b>Target group and/or beneficiaries</b>	Silica exposed population, occupational health and safety practitioners and inspectors, enterprise managers.
<b>Summary of the project (max 100 words)</b>	Silica exposure with its attendant diseases, particularly tuberculosis, is a major issue in the southern African region. A multi-faceted approach is needed to reduce exposure and prevent disease. This project aims to improve the capacity of the health and safety inspectorates by developing and presenting a course on dust measurement and control, to develop practical dust control solutions in a key sector (the quarry industry) which will serve as a model and be widely disseminated, to improve knowledge of the key stakeholders (workers, managers and practitioners) through information materials appropriate for the region, to promote appropriate practice on tuberculosis prevention through expert group meetings and dissemination of consensus statements.
<b>Dissemination</b>	Worker and enterprise meetings and associations, professional associations, WHO/ILO documents; regional Departments of Labour and Health, as well as appropriate electronic dissemination.
<b>Impact (global or regional)</b>	Southern African region primarily but useful for developing countries in general.

<b>24</b>	AA4:CE4b
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	National Institute for Occupational Safety and Health (NIOSH)
<b>Project title</b>	Training programs and guidance materials for surveillance, diagnosis, and treatment of silica exposed workers globally
<b>Keywords</b>	Silicosis, silicosis diagnosis, medical surveillance
<b>Project leader Email address</b>	Joe Burkhart, DRDS JEB7@CDC.GOV
<b>Partners (of the CC Network)</b>	Institute of Public Health (ISP) (Chile) International Labour Organization (ILO) World Health Organization (WHO) Pan American Health Organization (PAHO) University of Michigan
<b>Other partners</b>	Silicosis experts in other NIOSH divisions; Occupational Health Management Board (OHMB) of the Zambian Ministry of Health; additional partners welcome
<b>Funding</b>	NIOSH funding in place for Zambia. Funding not yet established for other activities.
<b>Objective of the project</b>	To provide guidance and training concerning standardized diagnostic procedures for silicosis.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Increased capacity of partner countries to provide training to personnel in their respective countries concerning the diagnosis of silicosis and increased awareness of occupation related medical surveillance.  Guidance developed in this effort will be fed into dissemination efforts – see project titled: “Global Silica Information Dissemination”.  Deadlines to be worked out with partners in Zambia and Chile.
<b>Target group and/or beneficiaries</b>	Partner countries and their medical community will have greater capabilities to serve their working populations. The information transferred during this project will in turn be transferred to other countries; this is especially true in the case of Chile which plans to aide other countries in the region.
<b>Summary of the project (max 100 words)</b>	The purpose of this project is to aid the ILO/WHO/PAHO campaign to prevent silicosis. This will be accomplished by helping to train physicians and medical technicians in partner developing countries in the provision of medical screening (pulmonary function tests and chest x-rays) of silica exposed workers.

<b>Dissemination</b>	Through direct contract with personnel in the partner countries and through NIOSH information products.
<b>Impact (global or regional)</b>	Global

<b>25</b>	AA 4: CE5a
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	National Institute for Occupational Health (NIOH), SA
<b>Project title</b>	Training on asbestos and its identification
<b>Keywords</b>	asbestos, microscopy, identification, crocidolite, amosite, chrysotile, tremolite-actinolite.
<b>Project leader Email address</b>	Dr. James Ian Phillips jim.phillips@nioh.nhls.ac.za
<b>Partners (of the CC Network)</b>	HSL, UK
<b>Other partners</b>	University of the Witwatersrand, School of Public Health, SA Relevant partners as required
<b>Funding</b>	NIOH
<b>Objective of the project</b>	To increase knowledge and capacity to identify asbestos in the SADC region
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>• Develop training materials and training course content (during 2006)</li> <li>• Present the training courses (2007)</li> <li>• Establish a regional reference and training centre in conjunction with the Occupational Hygiene Section of the NIOH (2008)</li> </ul>
<b>Target group and/or beneficiaries</b>	Occupational and Environmental Hygienists
<b>Summary of the project (max 100 words)</b>	Because of the potential of asbestos to cause adverse health effects, there is a need to identify asbestos in the workplace and the environment. The techniques used at the NIOH are of international standard. The capacity to perform asbestos analysis is not available in all parts of the region. Simpler, less costly methods can be useful in determining the presence of asbestos and determining its type. The workshop aims to increase the capacity to identify asbestos in the region.

<b>Dissemination</b>	- SADC Region - Associations of occupational and environmental hygienists
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<b>26</b>	<b>AA4:CE5b</b>
<b>Activity Area Number and title</b>	AA 4 Education, Training and Technical Materials
<b>CC or NGO Name</b>	Instituto de Salud Publica de Chile
<b>Project title</b>	Support in the methodology to train workers involved in asbestos removal activities.
<b>Keywords</b>	Asbestos, asbestosis, mesotelioma, qualification, removal.
<b>Project leader Email address</b>	Juan Alcaíno Lara – <a href="mailto:jalcaino@ispch.cl">jalcaino@ispch.cl</a>
<b>Partners (of the CC Network)</b>	---
<b>Other partners</b>	Institutions responsible for the worker health in countries of the region
<b>Funding</b>	Delivering of the original manual (hard copy), manual in CD, phone conferences, and any support via fax and e mail will be paid by the Instituto de Salud Publica.
<b>Objective of the project</b>	To give enough knowledge to asbestos removal workers to do these activities in a safely way.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	To establish coordinations with institutions indicated in “Other Partners”, to make effective the offering (2006-2010). - to give advice through the indicated ways (2006-2010).
<b>Target group and/or beneficiaries</b>	Workers of the region working in asbestos removal activities.
<b>Summary of the project (max 100 words)</b>	Firstly, Instituto de Salud Publica de Chile establishes communications with interested countries. After that, they are given the manual for workers involved in removal activities and the CD. Bilateral coordinations settle down to specify forms and timetable. Chilean professionals could give in field assistance but interested countries should fund this.
<b>Dissemination</b>	Institutional communications
<b>Impact (global or regional)</b>	Regional

<b>27</b>	<b>AA 4:CE6a</b>
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials

<b>CC or NGO Name</b>	Occupational and Environmental Health Research Unit, Univ Cape Town, SA
<b>Project title</b>	Radiological Occupational Lung Diseases Surveillance (ROLS)
<b>Keywords</b>	Radiological surveillance, occupational lung diseases, training
<b>Project leader Email address</b>	Professor J Myers myers@cormack.uct.ac.za
<b>Partners (of the CC Network)</b>	Asbestos Relief Trust – Dr Jim TeWaterNaude
<b>Other partners</b>	
<b>Funding</b>	Funding is currently being sought for incorporation of radiographs of asbestos-related lung disease
<b>Objective of the project</b>	To provide a resource for self-training and training under expert supervision for occupational health professionals operating in remote locations on how to diagnose occupational lung diseases including pneumoconioses using chest radiographs with potential application to the silicosis elimination programme.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	State the outcomes of the project. For example: <ul style="list-style-type: none"> <li>• To develop a training and diagnostic package on CDRom to achieve the project objectives by 2007</li> <li>• To use this package in face to face and also distance learning as part of formal postgraduate occupational health training and also by stand-alone modular training to appropriate health professionals</li> </ul>
<b>Target group and/or beneficiaries</b>	All health professionals working to eliminate silicosis and other pneumoconioses in any locations or organizations particularly those in remote locations working without easy access to relevant specialist radiological and occupational medicine expertise.
<b>Summary of the project (max 100 words)</b>	A training module for radiological surveillance of occupational lung diseases (OLDs) which is restricted to silicosis and tuberculosis is to be expanded to include asbestos-related diseases. The project includes a rapid triage process of radiological abnormalities as well as a more detailed diagnostic process for the particular type of OLD. The software enables health professionals to teach themselves radiographic interpretation of OLDs and to identify problems that need followup by relevant occupational medical specialists globally. It is suitable for delivery as a stand alone programme in radiological surveillance skills or as part of formal postgraduate

	programmes in occupational medicine.
<b>Dissemination</b>	Via stand-alone modular training packages or as part of formal postgraduate study.
<b>Impact (global or regional)</b>	Regional and possibly global

<b>28</b>	AA 4:CE6b
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Occupational and Environmental Health Research Unit, Univ Cape Town, SA
<b>Project title</b>	Spirometric Medical surveillance programme for Occupational Lung Diseases Surveillance (SPIROACCESS)
<b>Keywords</b>	Spirometric surveillance, occupational lung diseases, training
<b>Project leader Email address</b>	Professor J Myers myers@cormack.uct.ac.za
<b>Partners (of the CC Network)</b>	Asbestos Relief Trust – Dr Jim TeWaterNaude
<b>Other partners</b>	
<b>Funding</b>	Funding is currently being sought for integration of spirometric surveillance into a long term surveillance programme of asbestos related disease sufferers with potential expansion to the silicosis elimination programme.
<b>Objective of the project</b>	To provide a resource for self-training and training under expert supervision for occupational health professionals operating in remote locations on how to diagnose occupational lung diseases including pneumoconioses using spirometric records.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>To develop a training and diagnostic package on CDROM to achieve the project objectives by 2007 or 2008</li> <li>To use this package in face to face and also distance learning as part of formal postgraduate occupational health training and also by stand-alone modular training to appropriate health professionals</li> </ul>
<b>Target group and/or beneficiaries</b>	All health professionals working to reduce or eliminate occupational lung disorders in any locations or organizations particularly those in remote locations working without easy access to relevant specialist occupational medicine expertise.

<b>Summary of the project (max 100 words)</b>	A training module for spirometric surveillance of occupational lung diseases (OLDs) is to be integrated into a long term surveillance and compensation system for asbestos-related lung disease. The project includes a system for functionally classifying asbestos-related lung for compensation and health surveillance purposes. The software enables health professionals to teach themselves spirometric evaluation of patients with OLDs for both compensation and treatment perspectives. It is suitable for delivery as a stand alone programme in radiological surveillance skills or as part of formal postgraduate programmes in occupational medicine.
<b>Dissemination</b>	Via stand-alone modular training packages or as part of formal postgraduate study.
<b>Impact (global or regional)</b>	Regional and possibly global

<b>29</b>	AA 4: CE7a
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	National Institute for Occupational Safety and Health (NIOSH)
<b>Project title</b>	<i>Protecting Health Care Workers in International Settings</i>
<b>Keywords</b>	HIV, Infectious disease, Injuries, Health Care workers
<b>Project leader Email address</b>	Ahmed Gomaa, MD, ScD <a href="mailto:agomaa@cdc.gov">agomaa@cdc.gov</a> Walter Alarcon <a href="mailto:walarcon@cdc.gov">walarcon@cdc.gov</a>
<b>Partners (of the CC Network)</b>	WHO; PAHO; NIOEH Vietnam; NIOH South Africa
<b>Other partners</b>	ICN, Latin American and other global partners to be identified
<b>Funding</b>	NIOSH – HIV activity
<b>Objective of the project</b>	This project advances WHO's efforts to reduce HIV and Hepatitis B and C virus infections due to needlestick injuries among health care workers in international settings.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Between 2006-2010 the following outcomes are planned: 1) WHO will identify occupational health professionals through ICOH, WHO Collaborating Centers, health care worker representative (unions), and professional associations; compile interests and resources and publish an annotated list of resources available globally. WHO will facilitate regional teleconferences between partners to share resources and build a network of support for country policy on health care worker safety.

	<p>2) An Aide Memoire for health care worker occupational health and safety will be developed and disseminated.</p> <p>3) In Vietnam, the project will expand to consider all hazards to health care workers and develop occupational health services for health care worker health and safety. The experience in Vietnam will be shared widely in Southeast Asia and technical assistance provided to countries to develop national health care worker safety policy and programs.</p> <p>4) WHO will explore the development of a campaign to immunize health care workers against Hepatitis B in collaboration with the WHO Hepatitis B immunization programs and the MOH Expanded Program of Immunizations (EPI).</p> <p>5) WHO OHP and project staff will explore implementation of the needlestick prevention project in the Eastern Mediterranean Region .</p> <p>6) WHO Occupational health program will consult on health &amp; safety education curriculum with the model health care waste management project between WHO, the UN Environment Program (UNEP).</p> <p>7) With NIOSH, PAHO and new Latin American partners, this project will adapt, translate, implement training, and evaluate the success of the Toolkit in Latin America.</p>
<b>Target group and/or beneficiaries</b>	The world's 35 million health care workers.
<b>Summary of the project (max 100 words)</b>	This project advances the WHO's efforts to reduce blood-borne pathogen infection due to needlestick injuries among health care workers in international settings. It expands and continues a pilot project funded by NIOSH from 2002-2005 in Vietnam, Tanzania and South Africa that assessed and revised a WHO Toolkit to reduce sharps injuries for use in this expanded project on all continents, with many new partners.
<b>Dissemination</b>	Various approaches will be taken to announce the availability of products, as mentioned above. The availability of the Toolkit in Latin America will be announced on listservs in Spanish and English (Red de Seguridad y Salud de los Trabajadores, Duke Occupational and Environmental Medicine listserv), through the NIOSH eNEWS, and through PAHO, WHO and ILO and other partner email lists. The Toolkit will be available at the NIOSH, PAHO, and WHO Web sites and it should be identified in any search of "hepatitis", "SIDA", "inyecciones", "herramientas" (Spanish for hepatitis, AIDS, injections, tools). Also, an overview will be presented at upcoming national and international public

	health meetings. Finally, two new booklets will be published in the WHO Protecting Workers Health series: 1) a summary of preventing needlestick injuries lessons learned and best practices and 2) a general summary of health hazards to health care workers and control measures
<b>Impact (global or regional)</b>	Global.

<b>30</b>	<b>AA4:CE7b</b>
<b>Activity Area Number and title</b>	<b>AA4: Education, Training and Technical Materials</b>
<b>CC or NGO Name</b>	WHO CC National University of Singapore
<b>Project title</b>	Video-Conference Seminar on Usage of personal protective equipment for health care workers
<b>Keywords</b>	Video-conference teaching, personal protective equipment, health care workers
<b>Project leader Email address</b>	Dr CHIA Sin Eng Email cofcse@nus.edu.sg
<b>Partners (of the CC Network)</b>	WHO CC, University of Occupational and Environmental Health, Japan (responsible person Dr Ken Takahashi)  National Institute for Occupational Health (NIOH), South Africa (responsible person Dr Mary Ross)
<b>Other partners</b>	National Cheng Kung University and Medical Center, Taiwan (responsible person Dr Leon Guo )
<b>Funding</b>	None. Funded by respective WHO CCs.
<b>Objective of the project</b>	To assist participants from developing countries on the different type of personal protective equipment (PPE) that could be use to protect health care workers  To enable participants to choose the correct type of PPE and the right way of wearing it.  To set an example for other WHO CC to use this method (Video-conferencing) to reach out to large number of participants without them having to travel to other countries for the training  Builds on experience of 2005 in implementing tele-conference on occupational health among several of the

	above institutions.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<p>Project Outcomes</p> <ul style="list-style-type: none"> <li>• HCW will know what type of PPE to use to protect themselves against different type of hazards at their workplace and how to wear them correctly</li> <li>• The lectures and discussion will be recorded in a CD and this will be given to the participants and any other WHO CCs who need it.</li> <li>• That other WHO CCs will also adopt this method of training for some of education packages.</li> </ul> <p>Deadlines</p> <p>We plan to have this one-day seminar in 2006 with a possible repeat in 2007 if there is a demand for it.</p> <p>The CD of the Seminar should be ready with a week from the date of the Seminar.</p>
<b>Target group and/or beneficiaries</b>	Health Care workers, particularly from developing countries
<b>Summary of the project (max 100 words)</b>	This Video-Conference Seminar includes lectures, forum and panel discussion among expert in this field from Singapore, South Africa, Japan and Taiwan. Speakers and participants will participate in the lectures, forum and panel discussion via video-linked with the respective countries. The Seminar will be recorded in CD and make available to all WHO CC who needs it.
<b>Dissemination</b>	Via WHO CC channels
<b>Impact (global or regional)</b>	Global as participants will be coming from different countries with a large portion from the developing countries.

31	AA 4:CE8
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Institute of Maritime and Tropical Medicine in Gdynia, Medical University of Gdansk, Poland
<b>Project title</b>	Postgraduate Training in Maritime Occupational Health
<b>Keywords</b>	Training, maritime medicine

<b>Project leader Email address</b>	Dr Stanislaw Tomaszunas, Head, WHO CC in Gdynia E-mail: <a href="mailto:tomasz@amg.gda.pl">tomasz@amg.gda.pl</a>
<b>Partners (of the CC Network)</b>	University of Brest, France Rovira i Virgili University of Tarragona, Spain University of Southern Denmark, Esbjerg, Denmark
<b>Other partners</b>	Other WHO CCs on the health of seafarers
<b>Funding</b>	Expected support from external sources
<b>Objective of the project</b>	To conduct international postgraduate training courses for medical practitioners who provide health services for seafarers and fishermen, particularly in countries of Central and East Europe and in developing countries
<b>Project outcome(s) and deadline(s) for completion of the project</b>	To train specialists in maritime occupational health in those countries  2 courses are planned for the 5 years period (2006-2010), if adequate resources would be available
<b>Target group and/or beneficiaries</b>	Target group are medical officers in the above mentioned countries. They, and maritime workers who will be medically examined and treated, are the beneficiaries of this project
<b>Summary of the project (max 100 words)</b>	Three such international WHO postgraduate training courses for medical officers were already conducted in Gdynia, and 80 medical officers from 17 countries were trained in them and acquired specialist knowledge. The continuation of this activity is planned in future, in collaboration with the University of Brest, France, in 2006-2009, with the participation of 2 other WHO CCs in OH.
<b>Dissemination</b>	Trained doctors will go back to their countries and after getting new knowledge they will improve their services for the national maritime workers
<b>Impact (global or regional)</b>	The impact of this project is global

<b>32</b>	<b>AA4: CE9</b>
<b>Activity Area Number and title</b>	<b>AA4: Education, Training and Technical Materials</b>
<b>CC or NGO Name</b>	Great Lakes Centers for Occupational and Environmental Health and Safety University of Illinois at Chicago School of Public Health
<b>Project title</b>	Training Materials on Occupational Lung Disease for use in a post-graduate, 16 hours course, in Spanish and English

<b>Keywords</b>	Occupational lung disease, lung disease, training materials
<b>Project leader Email address</b>	Linda Forst <a href="mailto:forst-l@uic.edu">forst-l@uic.edu</a>
<b>Partners (of the CC Network)</b>	Linda Forst & Robert Cohen—Unive IL Chicago Catharina Wesseling, Costa Rica
<b>Other partners</b>	Aurora Aragon, UNAN Leon
<b>Funding</b>	University of Illinois at Chicago-International Programs University of Washington at Seattle (Keifer et al)
<b>Objective of the project</b>	To develop, evaluate, refine, and disseminate classroom based training materials on occupational lung disease in Spanish
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Power point slides and description of activities for a 16 hour course in Occupational Lung Disease timeline
<b>Target group and/or beneficiaries</b>	Professionals in medicine, hygiene, public health who want advanced training in Occupational Lung Disease in Spanish; teachers of that audience
<b>Summary of the project (max 100 words)</b>	Training materials were developed for a two day course by an occupational physician and a pulmonologist in the US. They were translated to Spanish, used and evaluated in a post-graduate course in Nicaragua, and are now being refined and prepared for posting on the new geolibrary.
<b>Dissemination</b>	Will be posted on the geolibrary website. June 2006 identify conference opportunities? Professional meetings? Medical education programs?
<b>Impact (global or regional)</b>	Increased training of medical personnel in occupational lung disease. Through PAHO reachout to programs in medical education programs?

<b>33</b>	<a href="#">AA4:CE10a</a>
<b>Activity Area Number and title</b>	<a href="#">AA4: Education, Training and Technical Materials</a>
<b>CC or NGO Name</b>	Office of the Australian Safety and Compensation Council (Office of the OASCC), Department of Employment and Workplace Relations
<b>Project title</b>	Provision of agreed occupational health and safety expert advice and support to United Nations Institute for Training and Research (UNITAR) Global Harmonisation of Chemicals (GHS) projects in Asia-Pacific regional developing countries
<b>Keywords</b>	Support, Global Harmonisation of Chemicals, Asia-Pacific Region
<b>Project leaders Email address</b>	Dr Peta Miller <a href="mailto:peta.miller@dewr.gov.au">peta.miller@dewr.gov.au</a>

<b>Partners (of the CC Network)</b>	Institute of Industrial Ecological Sciences, University of Occupational and Environmental Health, Japan. WHO CC, Asia Pacific Regional CC
<b>Other partners</b>	United Nations Institute for Training and Research Australian Government aid and training organisations Agencies within the nominated Asia Pacific region who are recipients of the training
<b>Funding</b>	Australian Government
<b>Objective of the project</b>	To improve nominated developing country/ies ability to identify and control exposure to hazards substances.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Provision of agreed occupational health and safety expert advice and support around the Global Harmonisation of Chemicals for UNITAR ASEAN projects (eg. Thailand, Philippines, Indonesia and Malaysia). This may include support for participation of a national GHS expert at one or more of the UNITAR ASEAN project pilot countries' national GHS workshops in the above countries. Stage 1: Identify current regional GHS technical requirements and available programmes - 2006 Stage 2: Fund GHS technical support – 2006-9 Stage 3: Programme evaluation & reporting - Deadline 2009-10
<b>Target group and/or beneficiaries</b>	Regional governments and their authorities within nominated Asia-Pacific developing countries.
<b>Summary of the project (max 100 words)</b>	To provide technical and advice to UNITAR Global Harmonisation of Chemicals projects. <i>Stage One:</i> Undertake bilateral discussions with global and regional WHO CCs, UNITAR, ILO training representatives, regional developing countries, and others to identify GHS technical support needs within the Asia- Pacific region. Development of detailed project plans and objectives. With the assistance of the appropriate regional WHO CC & UNITAR representatives negotiate with potential recipient countries for the provision of agreed support and training. <i>Stage Two:</i> Provision of agreed support. <i>Stage Three:</i> Evaluation and reporting of project(s) by the OASCC and regional WHO CC representatives to WHO CC and the Australian Government.
<b>Dissemination</b>	WHO website; Australian Safety and Compensation Council website ( <a href="http://www.ascc.gov.au">http://www.ascc.gov.au</a> ) recipient countries' websites; international and national annual reports; meetings, conferences and symposia.
<b>Impact (global or regional)</b>	Multi country/Asia- Pacific Region as technical support and training should be sensitive to regional needs and resources.

<b>34</b>	<b>AA4:CE10b</b>
<b>Activity Area</b>	<b>AA4: Education, Training and Technical Materials</b>

<b>Number and title</b>	
<b>CC or NGO Name</b>	Institute of Industrial Ecological Sciences, University of Occupational and Environmental Health, Japan
<b>Project title</b>	Regional Networking of International Training Opportunities in Occupational Health
<b>Keywords</b>	Education & Training, Training Trainers, Asia-Pacific Region, Networking
<b>Project leader Email address</b>	Dr TAKAHASHI Ken Email ktaka@med.uoeh-u.ac.jp
<b>Partners (of the CC Network)</b>	WHO CC, Occupational Health and Safety Policy, <b>Office of the Australian Safety and Compensation Council</b> (responsible officer Dr Peta Miller)
<b>Other partners</b>	Department of Environmental Health Engineering, Sri Ramachandra Medical College and Research Institute, Chennai, India (responsible person Dr Kalpana Balakrishnan) Occupational Safety and Health Center, Quezon City, Philippines (responsible person Dr. Maria Brenda L. Villafuerte)
<b>Funding</b>	None. Funded by respective WHO CCs and institutes.
<b>Objective of the project</b>	To periodically discuss and collate information on various available training opportunities in the region to ultimately develop an inventory; maintain it on pertinent website. To conduct gaps-analysis on resources (curriculum and manpower), needs and achievements as regards training opportunities. To evaluate quality of existing courses, collaborate on curricular improvement, provide training tools and co-ordinate with WHO and ILO for possible accreditation
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Project Outcomes <ul style="list-style-type: none"> <li>○ Training and education opportunities in the region will be collated and undergo scrutiny by a regional network of experts.</li> <li>○ Areas prompting more effort and resources will be identified by gaps-analysis, which can be utilized by WHO and ILO.</li> <li>○ Existing training courses will be provided with quality-assured training tools and tips for curricular improvement. Courses exceeding quality standards will be recognized or accredited.</li> </ul> <p><i>Deadlines</i> We plan to have an international meeting on the issue in 2006 with a possible follow-up in 2007 according to level of interest and commitment. The CD of the conference should be ready within a month or two from the date of the conference</p>
<b>Target group and/or beneficiaries</b>	Potential trainees as well as academicians, particularly from developing countries
<b>Summary of the project (max 100 words)</b>	The regional networking of international training opportunities aims at collating information on existing training opportunities available to the region and develop an inventory thereof. It

	will also conduct a gaps-analysis so as to identify the strengths and weaknesses of the current efforts. Ultimately it should provide quality-assured training tools that can be shared and lay grounds for accreditation of courses satisfying quality standards.
<b>Dissemination</b>	Via WHO CC channels and existing regional occupational health & safety networks
<b>Impact (global or regional)</b>	Regional as training opportunities should be sensitive to regional needs and resources.

<b>35</b>	AA 4: CE 11
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	IACP
<b>Project title</b>	PREP 2006
<b>Keywords</b>	Psychotherapy, Counselling, HIV/AIDS
<b>Project leader</b>	Alberto Zucconi
<b>Email address</b>	azucconi@iacp.it
<b>Partners (of the CC Network)</b>	IACP (ITALY),
<b>Other partners</b>	Istituto di Psicologia Generale e Clinica Università di Siena, Klinik Medizinische Psychologie und Psychotherapie Innsbruck, Austria, School of Psychology University of Leeds, UK, Person-Centered Approach Institute, Bratislava, Slovacchia, Department of Psychology, University of Malta. Other partners are welcome, they will need to fund their own contribution to the project
<b>Funding</b>	Funding asked to the EU
<b>Objective of the project</b>	Increase the effectiveness of training and service delivery. Creation of a common European approach for the design of high-quality training schemes for psychotherapists and counsellors operating at different levels in the public health system. Specifically, the project will address the development of health promotion competencies in psychotherapists and counsellors involved in services dealing with people living with HIV/AIDS and their families.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Definition of protocols for the evaluation of the outcomes of psychotherapeutic and counselling interventions in the public health sector, and for the validation of the effectiveness of training programs for psychotherapists and counsellors. The definition of a common metric between the different approaches, and the listing of the specific protocols for the different approaches. 2011
<b>Target group and/or beneficiaries</b>	Psychotherapists, counsellors, private and public training institutes, private and public health agencies
<b>Summary of the project (max 100 words)</b>	Validation of the effectiveness of training programs for psychotherapists and counsellors. The data will be collected in all the partner nations, and for all the therapeutic approaches represented in the partnership. To identify common training curricula for the building of specific capacities in psychotherapists and counsellors involved in services dealing with people living

	with HIV/AIDS.
<b>Dissemination</b>	The results will be spreaded though the website <a href="http://www.ipeppt.net">www.ipeppt.net</a> and specialized journals, newsletters, the attendance to national and international meetings, the dissemination of the results between educational institutions, and other actors of the public health system .
<b>Impact (global or regional)</b>	Global

<b>36</b>	<b>AA4: CE12</b>
<b>Activity Area Number and title</b>	<b>AA4: Education, Training and Technical Materials</b>
<b>CC or NGO Name</b>	Institute of Work, Health & Organisations, University of Nottingham
<b>Project title</b>	International education and training in occupational health psychology
<b>Keywords</b>	Occupational health psychology, psychosocial issues at work, work-related stress, education, training, awareness
<b>Project leader</b>	Dr Stavroula Leka
<b>Email address</b>	<a href="mailto:Stavroula.Leka@nottingham.ac.uk">Stavroula.Leka@nottingham.ac.uk</a>
<b>Partners (of the CC Network)</b>	FIOH – Finland CCOHS - Canada NIOH – S. Africa
<b>Other partners</b>	George Mason University – USA Colorado State University – USA EPUC - Chile University of Cyprus European Academy of Occupational Health Psychology US Society of Occupational Health Psychology
<b>Funding</b>	Funding will be sought through the EC Erasmus Mundus programme
<b>Objective of the project</b>	Development of international collaboration in education and training in occupational health psychology
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>• To develop a model core curriculum of occupational health psychology that will serve as the basis for the development of OHP courses on a global basis</li> <li>• To establish a network of centres of excellence in OHP education and training that will be promoted through a</li> </ul>

	website
<b>Target group and/or beneficiaries</b>	All occupational health and safety organisations, associations, training institutions; Higher education institutions; occupational health and safety professionals; students
<b>Summary of the project (max 100 words)</b>	<p>This project will promote occupational health psychology (OHP) across Europe and beyond it. This will be achieved through a network of institutions across the world, supported by the World Health Organization (WHO) Network of Collaborating Centres in Occupational Health, the European Academy of Occupational Health Psychology (EA-OHP) and the US Society of Occupational Health Psychology (SOHP).</p> <p>The project will run over a two year period and will include the following phases:</p> <ul style="list-style-type: none"> <li>• Review of OHP education and training provision across the world. This will be achieved through web-based searches, contacting and collecting information from higher education institutions, educational, training and relevant professional associations as well as public or private bodies active in the field of higher education. The review will identify lack of provision of OHP education and training and will serve as the basis for a subsequent awareness raising campaign.</li> <li>• A network of OHP education and training institutions will be formed with the aim of promoting OHP across the world.</li> <li>• A model OHP curriculum will be developed that will be used as the basis of OHP courses in countries where the discipline is not well-developed.</li> <li>• An awareness raising campaign will take place that will include: <ul style="list-style-type: none"> <li>○ the development of a website that will be promoted through the WHO, the EA-OHP and the SOHP</li> <li>○ seminars and workshops in different countries</li> <li>○ an OHP conference</li> </ul> </li> </ul>
<b>Dissemination</b>	Website; seminars; workshops; conference; publications
<b>Impact (global or</b>	Global

regional)	
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<b>37</b>	AA4:CE13
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	CC URESTE/LUSTE University of Abomey-Calavi (Benin)
<b>Project title</b>	Human resource development in occupational health and safety project: training of nurses specialised in occupational health and safety in Benin Republic and African francophone countries.
<b>Keywords</b>	Distance learning, nurses, occupational health and safety.
<b>Project leader Email address</b>	Fayomi, Benjamin Professeur Unité de Recherches et d'Enseignement en Santé au Travail et environnement/LUSTE ; Faculté des Sciences de la Santé, Université d'Abomey-Calavi Bénin bfayomi@ntnet.bj
<b>Partners (of the CC Network)</b>	Droz, Pierre-Olivier PhD, PD Institut universitaire romand de Santé au Travail Suisse
<b>Other partners</b>	1-Jean-Sylvain BONNY Dr en Médecine Professeur de médecine du travail UFR/Santé au travail Université d'Abidjan Cote d'Ivoire
<b>Funding</b>	Not yet defined
<b>Objective of the project</b>	Promote workers safety and health in all sectors of economics activity.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	To reinforce the skills of nurses in the work environment, 180 nurses will be trained to be specialised in occupational health and safety. The training will last 5 years, meaning 20 nurses per year, from the end of the second year after the beginning of the training. Deadline: March 2006.
<b>Target group and/or beneficiaries</b>	Musées of Benin, Ivory Coast, Togo.
<b>Summary of the project (max 100 words)</b>	To fight poverty and increase resources output, the Benin government has decided to go for modern industry and intensive agriculture in order to assure rapid economic growth. Therefore, since the quos, the government is doing its best to promote the occupational health and

	<p>safety of the workers who are the key actors of the development. All workers are not yet concerned though. Will these occupational health and safety actions be extended to all the actors of the national economic life who are still exposed to many harmful factors? That situation increases the importance of the consequences of professional risks.</p> <p>The many actions took in SST have had limited impact on the promotion of occupational health and safety, due to the lack of training on the subject and the limited, number of specialists of the topic. Indeed, on the 30<sup>th</sup> November 2005, Benin had 8 occupational health specialists and 6 specialised nurses.</p> <p>It is for all the above reasons and to take better care of the health of workers that a national training program for nurses specialised in occupational health has been initiated.</p>
	Worker's well-being.
<b>Impact (global or regional)</b>	The reinforcement of the skills of nurses operating in occupational environment will end in the training of 180 nurses specialised in occupational health and safety during 5 year. 20 nurses will be trained per year from the end of the second year after the beginning of the program. 20 nurses will be recruited each year

<b>38</b>	AA4:CE14
<b>Activity Area Number and title</b>	AA4 Education, Training and Technical Materials Was submitted to AA 3
<b>CC or NGO Name</b>	Instituto de Salud Publica de Chile
<b>Project title</b>	Promoting a Regional Diagnosis of exposure to silica.
<b>Keywords</b>	Diagnosis, silica, exposure, evaluation
<b>Project leader Email address</b>	Juan Alcaíno - <a href="mailto:jalcaino@ispch.cl">jalcaino@ispch.cl</a> Juan Ferruz – <a href="mailto:jferruz@ispch.cl">jferruz@ispch.cl</a>
<b>Partners (of the CC Network)</b>	Fundacentro (to confirm).
<b>Other partners</b>	Andean community. Institutions responsible for the health of workers in the region andean community.
<b>Funding</b>	Instituto de Salud Publica de Chile
<b>Objective of the project</b>	To make technological transference to the countries of the Region for the elaboration of a national diagnosis of exposure to silica.
<b>Project outcome(s) and deadline(s) for completion of the</b>	To train in topics like criteria and strategies of sampling, chemical analysis of samples, to offer the participation in laboratory intercomparison program for respirable free silica

<b>project</b>	samples, bibliographical support, statistical analysis. All this will be made in period 2006-2010.
<b>Target group and/or beneficiaries</b>	Countries of the region.
<b>Summary of the project (max 100 words)</b>	Instituto de Salud Publica de Chile offers an apprenticeship to the countries of the region interested in the elaboration of a national diagnosis of exposure to silica. Instituto de Salud Publica support bibliographical items, in country traveling, training and sample shipment for the intercomparison program. Tickets (to Chile) and per diem should be financed by the interested countries.
<b>Dissemination</b>	Offering the course to countries of the Region.
<b>Impact (global or regional)</b>	Regional

<b>39</b>	AA4:CE15
<b>Activity Area Number and title</b>	AA4 Education, Training and Technical Materials Was submitted to AA 3
<b>CC or NGO Name</b>	Instituto de Salud Publica de Chile
<b>Project title</b>	Contributing to the quality assurance of Occupational Health examinations in the Region.
<b>Keywords</b>	Quality, exposed worker to noise, interlaboratory comparison programs, examinations of Occupational Health
<b>Project leader Email address</b>	Mauricio Sánchez – <a href="mailto:masanchez@ispch.cl">masanchez@ispch.cl</a> Juan Ferruz – <a href="mailto:jlferruz@ispch.cl">jlferruz@ispch.cl</a>
<b>Partners (of the CC Network)</b>	Collaborating Centre to confirm.
<b>Other partners</b>	Institutions responsible for the worker health in countries of the region
<b>Funding</b>	Instituto de Salud Publica de Chile
<b>Objective of the project</b>	Technical transference to contribute to the improvement of quality of toxicological laboratory examinations (As, Hg and Pb) and Audiometric Centers.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	To train in subject of requirements for quality toxicological and audiometric exams. To give advise in the implementation of Programs of external quality evaluation of toxicological laboratories and audiometric centers. This will be made in period 2006-2010.
<b>Target group and/or beneficiaries</b>	Exposed workers to noise and chemical agents (As, Hg and Pb).
<b>Summary of the project (max 100 words)</b>	Interested countries (in the implementation of external evaluation programs for toxicological laboratories and audiometric centers) in the region will be contacted by Instituto de Salud Publica de Chile which will offer an

	apprenticeship. Tickets (to Chile) and per diem should be financed by the interested countries
<b>Dissemination</b>	Offering the course to countries of the Region.
<b>Impact (global or regional)</b>	Regional

<b>40</b>	AA4:CE16
<b>Activity Area Number and title</b>	AA4 Education, Training and Technical Materials <b>Was submitted to AA6: Communication and Networking</b>
<b>CC or NGO Name</b>	Canadian Centre for Occupational Health and Safety
<b>Project title</b>	Violence in the Workplace Awareness
<b>Keywords</b>	Violence, prevention,
<b>Project leader</b>	P.K. Abeytung, MSc, PhD.
<b>Email address</b>	<a href="mailto:abey@ccohs.ca">abey@ccohs.ca</a>
<b>Partners (of the CC Network)</b>	
<b>Other partners</b>	
<b>Funding</b>	CCOHS
<b>Objective of the project</b>	To provide a free service in the form of an e-learning course available through the world wide web to increase public awareness about workplace violence.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Increased public awareness of workplace violence and the need to recognize risks and establish a prevention program.  The e-learning course has been completed and is available to the public.
<b>Target group and/or beneficiaries</b>	Committee members, managers, supervisors and workers, Facility managers, human resources managers, senior managers and others with health and safety responsibilities
<b>Summary of the project (max 200 words)</b>	Free on-line course, visual and auditory, on topics including: what is workplace violence? Behaviours associated with workplace violence, sources of violent behaviour, etc.
<b>Dissemination</b>	<a href="http://www.ccohs.ca/products/courses/violence_awareness/">http://www.ccohs.ca/products/courses/violence_awareness/</a>

<b>Impact (global or regional)</b>	Global
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<b>41</b>	AA4:CE17
<b>Activity Area Number and title</b>	AA4 Education, Training and Technical Materials
<b>Activity Area Number and title</b>	Action AA4 Education, training and technical materials
<b>CC or NGO Name</b>	Centre of Environmental and Occupational Health National Institute of Health – Porto, Portugal  (Recognition as CC WHO in progress)
<b>Project title</b>	Training materials on Occupational Health / Occupational Hygiene
<b>Keywords</b>	Education, training
<b>Project leader Email address</b>	Olga Mayan <a href="mailto:olgamayana@mail.teleoac.pt">olgamayana@mail.teleoac.pt</a>
<b>Partners (of the CC Network)</b>	Fundacentro (Brasil) NIOH South Africa
<b>Other partners</b>	University of Porto Others (African countries)
<b>Funding</b>	Portuguese Government (INSA) Others not yet identified
<b>Objective of the project</b>	Train OSH expert in Portugal and African countries of Portuguese language
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Continuous Deadline: 2010
<b>Target group and/or beneficiaries</b>	Occupational hygienists Occupational physicians Public health technicians
<b>Summary of the project (max 100 words)</b>	Professional training modules: - Safety and Health in Lab: 15 hours - Noise exposure. How to Measure and Analyse the Results (6 hours) - Chemical Risk Assessment (qualitative): 6 hours  <u>To revised and to introduce some adjusts on pos-graduate education – University of Porto (Master degree on Public Health and Occupational Medicine Course).</u> In order to fill in gaps in already existing courses, some specific training modules will be developed, namely - Occupational health hazards identification methodology - Chemical risk assessment and risk management

<b>Dissemination</b>	Manual and other training materials (lessons. Brochures) in Portuguese to be used on OHS train
<b>Impact (global or regional)</b>	Global

<b>42</b>	AA4:CE18
<b>Activity Area Number and title</b>	AA4 Education, Training and Technical Materials
<b>Project title</b>	Education and Training in Risk Assessment and Risk Analysis at a Master level
<b>Project leader</b>	Professor Marco Maroni, International Centre for Pesticide Health and Risk Prevention (ICPS)
<b>Partners</b>	University of Milan, University of Utrecht, University of Surrey, Karolinska Institute, University of Padua. IPCS, ECEH-WHO, EU-JRC, Private Companies
<b>Potential to involve additional partners</b>	Collaboration sought of other academic and non-academic partners
<b>Funding</b>	The participating Universities and partners
<b>Issues to be addressed</b>	Development of a Master curriculum and delivery of Master courses for Human and environmental risk assessment and risk analysis of chemicals, in particular pesticides, biocides, persistent toxicants and other substances representing a risk for workers, the food chain, consumers and the environment.
<b>Project outcomes</b>	<ul style="list-style-type: none"> <li>• Graduate and post-graduate training of risk assessors</li> <li>• Development of a risk assessment curriculum at European level.</li> <li>• Involvement and networking of European Universities, and International Organizations (WHO, IPCS, EFSA) and private companies.</li> <li>• Development of updated learning/technical materials (presentations, lectures, articles, case-studies, supplementary study material, reference-books, textbooks).</li> <li>• Share and provision of e-learning and distant-learning materials.</li> </ul> <p><b>Expected capacities to be built</b></p> <ul style="list-style-type: none"> <li>• Understand and describe the process of risk assessment and risk analysis.</li> <li>• Identify and locate resources that can assist in risk assessment and risk analysis.</li> <li>• Develop the ability to conduct a risk assessment and risk analysis.</li> <li>• Distinguish between different levels of risk (acceptable and unacceptable risk).</li> <li>• Assessment of dossiers prepared for registration of pesticides or biocides.</li> <li>• Analysis of case studies for substances of interest.</li> <li>• Performance of risk assessment for workers, operators, consumers, and the environment.</li> <li>• Design, performance and evaluation of research projects in the</li> </ul>

	field of risk assessment.
<b>Project beneficiaries</b>	Governments, Agencies and Industry that need to develop risk assessment and risk analysis capacity, especially in Eastern Europe and in the developing countries of other continents.
<b>Dissemination</b>	Dissemination and adaptation of the educational and training programs and the technical materials will be developed at regional level throughout collaboration with WHO CCs
<b>Impact</b>	European-Global

43	AA 4: TMI
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	Great Lakes Center for Occupational and Environmental Safety and Health University of Illinois at Chicago School of Public Health
<b>Project title</b>	GEOLibrary
<b>Keywords</b>	Curriculum, training, technical materials
<b>Project leader Email address</b>	Leslie Nickels lnickels@uic.edu
<b>Partners (of the CC Network)</b>	NIOSH, University of Texas Houston, FIOH
<b>Other partners</b>	All CC
<b>Funding</b>	UIC, CDC, NIOSH, Abbot
<b>Objective of the project</b>	To create a library of occupational health education, training and technical materials
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Data base of education, training and technical materials that is searchable in multiple languages. The library can house an unlimited number of materials. Expected date of completion Dec 2006 2007-2009 work with all CC to add materials to library, provide information for “marketing” the library to potential users, evaluate use and update.
<b>Target group and/or beneficiaries</b>	Occupational health educators, workers, employers, and health providers.
<b>Summary of the project (max 100 words)</b>	Geolibrary.org is an electronic library of occupational and environmental health training materials. This library contains training materials which are in the public domain and which are available to the user free of charge. The training

	materials contained in this library come from a wide variety of sources, including international organizations, governmental institutes and agencies, academic institutions, corporations, unions, and non-governmental organizations.
<b>Dissemination</b>	Via the internet and CDROM, make presentations at conferences, which conferences?
<b>Impact (global or regional)</b>	Increased access to training and technical materials related to occupational health

<b>44</b>	AA4:TM 2
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials (This was originally submitted to AA3)
<b>CC or NGO Name</b>	Federal Institute of Occupational Health, Germany
<b>Project title</b>	Elaboration of a European Guide to support the new European Directive 2003/10/EEC on the requirements regarding the exposure of workers to the risks arising from the physical agent noise
<b>Keywords</b>	
<b>Project leader</b>	Dr. Patrick Kurtz (2.6)
<b>Email address</b>	<a href="mailto:Kurtz.patrick@baua.bund.de">Kurtz.patrick@baua.bund.de</a>
<b>Partners (of the CC Network)</b>	
<b>Other partners</b>	INRS, CIOP und HSL
<b>Funding</b>	The project is funded by the European Commission.
<b>Objective of the project</b>	
<b>Project outcome(s) and deadline(s) for completion of the project</b>	
<b>Target group and/or beneficiaries</b>	
<b>Summary of the project (max 100 words)</b>	To support the new European Physical Agents Directive on Noise the European Commission sponsors a project to prepare a guide helping employers and employees to comply with the requirements of the Directive to reduce the noise exposure of workers. The task to prepare such a guide was given to a consortium of different OHS institutions of the member states. These institutions are the INRS from France, CIOP from Poland, HSL from the UK and the BAuA from Germany. The guide will be finalised in 2006 and deals with subjects like: Basis of acoustics, measurement and exposure

	evaluation, design of the workplace, techniques of noise reduction, hearing protectors, hearing damage, purchase of quiet machines, noise reduction in the entertainment sector, etc.. A list of keywords guides the reader through the text. The whole guide is written in a plain style including a respective glossary explaining technical terms. Although the guide is prepared to support the European Directive it can be used as a general information about noise reduction at workplaces.
<b>Dissemination</b>	The guide will be disseminated in the EU in all member state languages.
<b>Impact (global or regional)</b>	Although the guide is supporting European legislation it provides a general tool to reduce noise at workplaces.

<b>45</b>	<b>AA4:TM3a</b>
<b>Activity Area Number and title</b>	<b>AA4: Education, Training and Technical Materials</b>
<b>Activity Area Number and title</b>	<b>Education, Training and Technical Materials</b>
<b>CC or NGO Name</b>	Andrija Stampar School of Public Health, School of Medicine University of Zagreb, Zagreb, Croatia
<b>Project title</b>	<b>COUNTRIES IN TRANSITION: HOW TO PROMOTE HEALTH AT WORK IN HEALTH ORGANIZATIONS</b>
<b>Keywords</b>	healthcare workers, stress at work, burn out, mobbing, work ability index, risk assessment
<b>Project leader Email address</b>	Professor Jadranka Mustajbegovic, MD, PhD <a href="mailto:jmustajb@snz.hr">jmustajb@snz.hr</a>
<b>Partners (of the CC Network)</b>	Institute of Occupational and Radiological Health, Beograd-Serbia&Montenegro Institute of Occupational Health, Republic of Macedonia
<b>Other partners</b>	School of Medicine University of Tuzla, Bosnia&Herzegovina
<b>Funding</b>	Ministry of science; Ministry of health; Social partners.
<b>Objective of the project</b>	To spread awareness, knowledge and skills in work-related stress within healthcare workers in tackle work-related stress; to co-ordinate stress risk assessment; to educate workers and management in health organizations how to work in partnership to address work-related stress throughout the organization; to provide some solutions & directions. Train the trainer materials, documents and materials
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>• To develop curriculum or technical materials? to tackle work-related stress (by 2007) AA 3;</li> <li>• To list the mayor stressors in healthcare workers (by 2008);</li> <li>• To assess stress and work ability index in the</li> </ul>

	<p>representative sample of healthcare workers (by 2009) international application or adaptation;</p> <ul style="list-style-type: none"> <li>To create the stress guidance pack– curriculum for training and education (by 2010).</li> </ul>
<b>Target group and/or beneficiaries</b>	All workers in health organizations, especially health workers and health managers
<b>Summary of the project (max 100 words)</b>	Stress, mobbing and burnout are believed to be due to bad work organization in healthcare services. Activities in the project are designed to explore the major determinants of work-related stress and related phenomena in healthcare workers using the methodology for workplace surveys developed by the European Foundation for Living and Working Environment. Develop a common set of indicators for healthcare workers and develop a national plans of actions on work-related stress. Intercountry collaboration in that area could take the form of regional fora, e.g. conferences and workshops in particular area of stress at work with participation of the social partners.
<b>Dissemination</b>	Workshops where; Publications which; WHO/ILO documents; meetings; timeline
<b>Impact (global or regional)</b>	Regional (countries)

46	AA4:TM3b
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
CC or NGO Name	EUROPEAN INSTITUTE OF HEALTH AND SOCIAL WELFARE, Madrid, Spain
Project title	Integral Management in Environment, Quality and Occupational Health.. Training material for GEO Library.
Keywords	Integration elements, Common procedures, Measure and optimising.
Project leader Email address	Dr. Manuel Peña <a href="mailto:direccion@institutoeuropeo.es">direccion@institutoeuropeo.es</a>
Partners (of the CC Network)	
Other partners	
Funding	EUROPEAN INSTITUTE OF HEALTH AND SOCIAL WELFARE
Objective of the project	Dissemination of training material for developing countries professionals. Specially for Quality, Environment and Occupational Health managers. Languages: English, French and Spanish
Project outcome(s) and deadline(s) for completion of the project	To include the training material is in GEO Library. The training material is accepted and used by the professionals. A common model is used to guarantee an integral management.

Target group and/or beneficiaries	All professionals.
Summary of the project (max 100 words)	This training material is a course that deals with : integration of the management through documentation system, common procedures and integration elements, managers compromise, responsibility, authority and communication. It is a global proposal management based in a recognised and international normative.
Dissemination	Through GEO Library.
Impact (global or regional)	Global.

<b>47</b>	AA 4: TM4a
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	National Institute for Occupational Health (NIOH), SA
<b>Project title</b>	Prevention of Needlestick Injuries in Healthcare Workers
<b>Keywords</b>	Health, safety, needlestick, injury, healthcare workers, bloodborne diseases
<b>Project leader Email address</b>	Ms. Busisiwe Nyantumbu busisiwe.nyantumbu@nioh.nhls.ac.za
<b>Partners (of the CC Network)</b>	NIOH, SA WHO
<b>Other partners</b>	International Council of Nurses Democratic Nursing Organisation of South Africa Department of Health, SA SADC AIDS Network for Nurses and Midwives
<b>Funding</b>	NIOH - as part of the overall project on healthcare workers managed by Prof. Mary Ross
<b>Objective of the project</b>	Prevention of needlestick injuries and bloodborne infections in healthcare workers
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ol style="list-style-type: none"> <li>1. Produce piloted and tested materials from the WHO Injection Safety toolkit to educate and train healthcare workers 2006</li> <li>2. Facilitate training of healthcare workers using these materials</li> <li>3. Incorporate the materials in the curricula for medical students</li> <li>4. Produce information materials (posters and brochures)</li> </ol>
<b>Target group and/or beneficiaries</b>	Healthcare workers including doctors, interns, registered nurses, student nurses, assistant nurses, general assistants and allied workers
<b>Summary of the project (max 100)</b>	Healthcare workers are exposed to many hazards. One of them is needlestick injury. Needlestick injury can transmit

<b>words)</b>	infections of bloodborne pathogens namely Hepatitis B (HBV), Hepatitis C (HCV) and the virus that causes AIDS (HIV). It is estimated that 2 million needlestick injuries occur in healthcare workers worldwide. The bulk of needlestick injuries occur in the developing countries. The global burden of acquired infections from occupational exposure including needlestick injuries is 40% HBV, 40% HCV and 2.5% HIV. This has implications on healthcare service delivery. Needlestick injuries can be prevented through education and training of workers. Therefore, the aim of this project is to use education and training of healthcare workers to prevent the occurrence of needlestick injuries and associated infections. Initially, this project is going to be conducted at the National Health Laboratory Services (NHLS) Laboratories followed by the public hospitals in South Africa and will also be appropriate for the SADC countries.
<b>Dissemination</b>	Presentations at meetings and workshops of medical organizations, professional societies and unions
<b>Impact (global or regional)</b>	Regional

48-1	AA4:TM4b  This is one of five submitted projects that will be combined into a single project
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials (It was originally submitted AA3)
<b>CC or NGO Name</b>	Federal Institute of Occupational Health, Germany
<b>Project title</b>	The management of time-pressure in nursing
<b>Keywords</b>	Healthcare, nursing, mental workload, psychosocial hazards
<b>Project leader</b>	Stephan Schwarzwälder (3.3)
<b>Email address</b>	<a href="mailto:Schwarzwaelder.stephan@baua.bund.de">Schwarzwaelder.stephan@baua.bund.de</a>
<b>Partners (of the CC Network)</b>	
<b>Other partners</b>	Co-operating partners still need to be found in the beginning of 2006.
<b>Funding</b>	New Quality of Work Initiative (INQA) - Federal Institute for Occupational Safety and Health (BAuA).
<b>Objective of the project</b>	To develop simple, easy to use guidelines to reduce time-pressure in nursing. Methods and procedures will be described which can be implemented within a small financial budget. Pictures will be used for a better illustration of the content.
<b>Project outcome(s) and deadline(s) for completion of the</b>	The manual will be available in a printed and in an online version. The manual can be ordered free of costs. It is envisaged that the manual can be used to initiate the exchange of different strategies

<b>project</b>	and procedures to reduce time-pressure in nursing within the occupational health community.  The project is scheduled to be completed by December 2007.
<b>Target group and/or beneficiaries</b>	Nurses, healthcare managers, health and safety specialists
<b>Summary of the project (max 100 words)</b>	Time-pressure is a major stressor in nursing. A high amount of documentation, quality control and a fast changing work environment in the healthcare system with a growing profit-oriented outlook leads to a high workload for nurses.  Models of good practice show that time-pressure can be (partly) reduced by easy means. Possible ways include the re-organisation of work, the braking-up of old routines and the implementation of a more flexible, client-oriented work-allocation.
<b>Dissemination</b>	The manual will be available to everybody who is interested. The distribution through the CC network would be of interest
<b>Impact (global or regional)</b>	Global

48-2	AA4:TM4b
	This is one of five submitted projects that will be combined into a single project
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials (It was originally submitted AA3)
<b>CC or NGO Name</b>	Federal Institute of Occupational Health, Germany
<b>Project title</b>	Good leadership practices in nursing
<b>Keywords</b>	Health, nursing, leadership, psychosocial hazards, work-satisfaction
<b>Project leader</b>	Stephan Schwarzwälder (3.3)
<b>Email address</b>	<a href="mailto:Schwarzwaelder.stephan@baua.bund.de">Schwarzwaelder.stephan@baua.bund.de</a>
<b>Partners (of the CC Network)</b>	
<b>Other partners</b>	Co-operating partners still need to be found in the beginning of 2006.
<b>Funding</b>	New Quality of Work Initiative (INQA) - Federal Institute for Occupational Safety and Health (BAuA).
<b>Objective of the</b>	To improve the health of nurses and reduce psychosocial stressors

<b>project</b>	through good leadership. Pictures will be used for a better illustration of the content.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	The manual will be available in a printed and in an online version. The manual can be ordered free of costs. It is envisaged that the manual can be used to initiate the exchange of different strategies and procedures to reduce time-pressure in nursing within the occupational health community.  The project is scheduled to be completed by December 2007.
<b>Target group and/or beneficiaries</b>	Nurses, healthcare managers, health and safety specialists
<b>Summary of the project (max 100 words)</b>	Good leadership skills of the head-nurse and other healthcare managers play an important role in the job-satisfaction of nurses. The transparency of processes, the participation of the employees in the decision-making process and the support of the employees in their personal and professional development are some examples. The project will present various aspects of good leadership and provide helpful tools for a good management.
<b>Dissemination</b>	The manual will be available to everybody who is interested. The distribution through the CC network would be of interest.
<b>Impact (global or regional)</b>	Global

48-3	AA4: TM4b  This is one of five submitted projects that will be combined into a single project
<b>Activity Area Number and title</b>	Formerly 3 –Practical approaches to identify and reduce occupational risks/AA4
<b>CC or NGO Name</b>	Federal Institute of Occupational Health, Germany
<b>Project title</b>	Work & family: guidelines for nurses
<b>Keywords</b>	Health, nursing, work-life balance, psychosocial hazards
<b>Project leader</b>	Stephan Schwarzwälder (3.3)
<b>Email address</b>	<a href="mailto:Schwarzwaelder.stephan@baua.bund.de">Schwarzwaelder.stephan@baua.bund.de</a>
<b>Partners (of the CC Network)</b>	
<b>Other partners</b>	Co-operating partners still need to be found in the beginning of 2006.
<b>Funding</b>	New Quality of Work Initiative (INQA) - Federal Institute for Occupational Safety and Health (BAuA).
<b>Objective of the project</b>	As in example 3 the goal is to develop simple, easy to use guidelines to improve the health of nurses. Pictures will be used for a better illustration of the content.
<b>Project outcome(s) and deadline(s) for completion of the</b>	The manual will be available in a printed and in an online version. The manual can be ordered free of costs. It is envisaged that the manual can be used to initiate the exchange of different strategies

<b>project</b>	and procedures to reduce time-pressure in nursing within the occupational health community.  The project is scheduled to be completed by December 2007.
<b>Target group and/or beneficiaries</b>	Nurses, healthcare managers, health and safety specialists
<b>Summary of the project (max 100 words)</b>	Nurses have a physically and psychologically demanding job. Feelings of responsibility and a high commitment to take care of others can lead to personal exhaustion.  To maintain the own health it is necessary to find an individual balance between work and relaxation. The project will address the topic to support the individual awareness towards this topic and different ways for a good work-live balance will be illustrated.
<b>Dissemination</b>	The manual will be available to everybody who is interested. The distribution through the CC network would be of interest.
<b>Impact (global or regional)</b>	Global

48-4	AA4:TM4b  This is one of five submitted projects that will be combined into a single project
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials (It was originally submitted AA3)
<b>CC or NGO Name</b>	Federal Institute of Occupational Health, Germany
<b>Project title</b>	Good communication in nursing
<b>Keywords</b>	Health, nursing, communication, psychosocial hazards, team-climate, work-climate
<b>Project leader</b>	Stephan Schwarzwälder (3.3)
<b>Email address</b>	<a href="mailto:Schwarzwaelder.stephan@baua.bund.de">Schwarzwaelder.stephan@baua.bund.de</a>
<b>Partners (of the CC Network)</b>	
<b>Other partners</b>	Co-operating partners still need to be found in the beginning of 2006.
<b>Funding</b>	New Quality of Work Initiative (INQA) - Federal Institute for Occupational Safety and Health (BAuA).
<b>Objective of the project</b>	To improve the health of nurses and reduce psychosocial stressors through good communication. Pictures will be used for a better

	illustration of the content.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<p>The manual will be available in a printed and in an online version. The manual can be ordered free of costs. It is envisaged that the manual can be used to initiate the exchange of different strategies and procedures to reduce time-pressure in nursing within the occupational health community.</p> <p>The project is scheduled to be completed by December 2007.</p>
<b>Target group and/or beneficiaries</b>	Nurses, healthcare managers, health and safety specialists
<b>Summary of the project (max 100 words)</b>	Social support is a major resource to cope with a demanding work environment. An open and trustful communication is a prerequisite for a mutual trust and social support. The project will illustrate to pitfalls of communication, misunderstandings and ways to improve the communication and information exchange at work. The importance of a respectful interaction, recognition and a frequent positive feedback for the individual well-being and satisfaction at work will be presented.
<b>Dissemination</b>	The manual will be available to everybody who is interested. The distribution through the CC network would be of interest.
<b>Impact (global or regional)</b>	Global

48-5	AA4:TM4b  This is one of five submitted projects that will be combined into a single project
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials (It was originally submitted AA2)
<b>CC or NGO Name</b>	Federal Institute of Occupational Health, Germany
<b>Project title</b>	Good solutions in nursing
<b>Keywords</b>	Health, nursing, employee participation
<b>Project leader Email address</b>	Stephan Schwarzwälder (3.3) <a href="mailto:Schwarzwaelder.stephan@baua.bund.de">Schwarzwaelder.stephan@baua.bund.de</a>
<b>Partners (of the CC Network)</b>	
<b>Other partners</b>	
<b>Funding</b>	New Quality of Work Initiative (INQA) - Federal Institute for Occupational Safety and Health (BAuA).
<b>Objective of the project</b>	The translation of a booklet which describes the projects of 8 organisations, including hospitals, ambulant care and homes for the elderly. Examples of best practice are presented to support the international exchange.

<b>Project outcome(s) and deadline(s) for completion of the project</b>	A booklet which illustrates examples of a health-promoting work-design of German healthcare organisations. The booklet will be available in August 2006.
<b>Target group and/or beneficiaries</b>	Nurses, healthcare managers, health and safety specialists
<b>Summary of the project (max 100 words)</b>	The booklet illustrates models of best practice. Different ways towards a health-promoting work design are shortly presented. The descriptions include positive and negative factors during the implication of the project as well as positive outcomes. A contact person for each project is named for further questions.
<b>Dissemination</b>	The manual will be available to everybody who is interested. The distribution through the CC network would be of interest.
<b>Impact (global or regional)</b>	Global

<b>49</b>	AA 4:TM4c
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	National Institute for Occupational Health (NIOH), SA
<b>Project title</b>	Enhanced diagnosis and management of pulmonary tuberculosis: flow sheet for healthcare workers
<b>Keywords</b>	PTB, diagnosis, performance review
<b>Project leader</b>	Prof. Jill Murray
<b>Email address</b>	jill.murray@nioh.nhls.ac.za
<b>Partners (of the CC Network)</b>	Seeking partners in developing countries e.g. India, China
<b>Other partners</b>	Medical School, University of the Witwatersrand (SA)
<b>Funding</b>	A tool was developed and evaluated in the South African mining industry using funding provided by the South African Mine Health and Safety Council ( <a href="http://www.simrac.co.za">http://www.simrac.co.za</a> ). A small amount of funding US\$10 000 will be needed for the roll out of this project beyond the borders of South Africa.
<b>Objective of the project</b>	To update and 'fine-tune' the existing flow sheet for use internationally.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	An improved, internationally applicable one page evidence based flow sheet for the enhanced diagnosis and management of PTB. December 2007
<b>Target group and/or beneficiaries</b>	All occupational health practitioners
<b>Summary of the project (max 100 words)</b>	Earlier studies explored an effective method for improving the diagnosis and management of PTB by identifying, producing and distributing appropriate educational material for the implementation of best practice. Process review was identified to be an effective way of developing successful

	practice habits. Implementation of the program in the South African mining industry resulted in significant improvement in the diagnosis of PTB. This project seeks to update the tool and to implement its use internationally.
<b>Dissemination</b>	Web based
<b>Impact (global or regional)</b>	Global

50	AA 4:TM4d
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	National Institute for Occupational Health (NIOH), SA
<b>Project title</b>	Latex Allergy & Asthma – Risk management programme for healthcare workers
<b>Keywords</b>	Latex, allergy, asthma, healthcare workers
<b>Project leader Email address</b>	Ms. Tanusha Singh tanusha.singh@nioh.nhls.ac.za
<b>Partners (of the CC Network)</b>	NIOH: South Africa University of Cape Town (UCT): South Africa HSL (UK) – <i>to be confirmed</i>
<b>Other partners</b>	BGFA (Germany)
<b>Funding</b>	The project will be partially supported by NIOH, UCT Additional funding will be sought for 2007.
<b>Objective of the project</b>	To develop a comprehensive latex risk management programme in public health care settings.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>▪ To develop a screening questionnaire for latex allergy (by end 2006)</li> <li>▪ To develop a poster of the stepwise approach to diagnosing latex allergy (by end 2006)</li> <li>▪ To develop an information sheet on latex allergy and its prevention directed at employees and employers, available both electronically and in hard copy (by end 2007)</li> </ul>
<b>Target group and/or beneficiaries</b>	Healthcare facilities, clinics and dental institutions and laboratories, particularly in rural settings
<b>Summary of the project (max 100 words)</b>	The promulgation of health and safety regulations requiring employers to provide protective measures for their employees has led to an increased demand for latex gloves resulting in increasing incidence of latex allergy. Latex allergy has serious personal and health service consequences including potential work restriction and morbidity. This project aims to educate hospital management and exposed workers about latex allergy through implementing a latex awareness programme which includes an approach to diagnosis and management of latex allergy and asthma within public sector health services and laboratories in southern Africa.
<b>Dissemination</b>	Through workshops with health service representatives and employees.
<b>Impact (global or</b>	Global - the intention is for the project to be a model for use in other countries.

regional)	
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51	AA4:TM4.e
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials (It was originally submitted to AA2 and AA3)
<b>CC or NGO Name</b>	Department of Environmental Health Engineering, Sri Ramachandra Medical College & Research Institute, Chennai, India (Recognition as WHO CC in progress)
<b>Project title</b>	<b>Health Care Worker's Safety - Need Assessment and Intervention</b>
<b>Keywords</b>	health care workers (HCW), hospitals, safety, needle stick injury, infection control, ergonomics, chemical safety
<b>Project leader Email address</b>	Norbert L. Wagner MD PhD; NLWagner@web.de Jayachandran P.; dr_pjaya@yahoo.com
<b>Partners (of the CC Network)</b>	<i>Possible partners (to be confirmed):</i> CC: NIOH, Ahmedabad India CC's in other developing countries are invited to join
<b>Other partners</b>	<i>Possible other partners (to be confirmed):</i> WHO Safe Injection Global Network, Geneva Indian Council of Nursing Employee State Insurance Hospital Consortium, India Employers' Liability Insurance for the Health Care Sector, Hamburg Germany
<b>Funding</b>	The CC will apply for funding
<b>Objective of the project</b>	The goal is to a. Identify needs to protect health care workers in a developing country such as India regarding training, equipment, medical follow-up and policy changes b. Identify the extent of risk for HCW in rural and urban health care settings c. Identify, implement and evaluate intervention programs to prevent occupational diseases in HCWs.
<b>Project outcome(s) and deadline(s) for</b>	- better data on health risks, exposure, training needs and policy needs to protect HCWs (1 - 2 years from start of

<b>completion of the project</b>	funding) - experiences of interventions, recommendations for policy changes (2 - 3 years from start of funding)
<b>Target group and/or beneficiaries</b>	health care workers, hospital administrations, schools of nursing
<b>Summary of the project (max 100 words)</b>	HCW are one of the high-risk occupational groups in developing countries. Their function as essential frontline providers of healthcare makes them especially vulnerable for emerging and old diseases, ergonomic problems.  The complex situation of HCW in developing countries is often disregarded in curricula oriented towards industrialized countries. The lack of awareness of hazards in policy, nursing community and hospitals, missing legislation and non-existing law enforcement put HCW at un-necessary risk.  Adequate needs assessment and support for corrective action is needed.
<b>Dissemination</b>	WHO/ILO document on Good Practices, if possible Scientific report on project evaluation available, to be published Manual on Health Care Workers appropriate for different country situations Workshops and trainings
<b>Impact (global or regional)</b>	Global. Transfer and distribution possible for all English speaking, low literacy countries with a PHC system;

<b>52</b>	<b>AA4:TM4.f</b>
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials (It was originally submitted to AA1 and AA2)
<b>CC or NGO Name</b>	TNO Quality of Life/Work&Employment
<b>Project title</b>	Blind spot for work-relatedness in health care
<b>Keywords</b>	Attending physicians; blind spot; work-relatedness; health care
<b>Project leader Email address</b>	Dr. PC Buijs p.buijs@arbeid.tno.nl
<b>Partners (of the CC Network)</b>	NIOSH (Max Lum, partner in TNO-project) Arbetslivetinstitutet (Kaj Elgstrand to be asked by Frank Pot or Peter Westerholm, partner in TNO-project)
<b>Other partners</b>	Instituten René Mendes en El Kohlti
<b>Funding</b>	The blind spot project has been funded by the Dutch

	Department of Labour. An international email working party participated in this project. In the present proposed project, we will disseminate the results of this project . Funding by TNO Quality
<b>Objective of the project</b>	1) To inform attending physicians and other health care professionals about the possible work-relatedness of complaints and diseases. 2) To take this relatedness into account in diagnosis, advice and treatment.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	WHO brochure, deadline end 2006
<b>Target group and/or beneficiaries</b>	Attending physicians, health care workers in all countries
<b>Summary of the project (max 100 words)</b>	Results and outcome of an international TNO-project on 'Blind Spot' will be translated in a brochure text informing health care workers about in/out of work-relatedness of complaints and diseases. This blind spot for work-relatedness in healthcare seems to be a widely spread global problem, leading to insufficient care for workers and endangering their work ability. Also the outcome of the Special session on the ICOH-Centennial, Milano 2006, organised by our group, will be used as input for this brochure
<b>Dissemination</b>	Brochures to partners of the CC network. Further distribution by the partners and by internet.
<b>Impact (global or regional)</b>	Global

53	AA4:TM5
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials (It was originally submitted to AA3.)
CC or NGO Name	Department of Maritime Medicine, (Central Institute for Occupational Medicine , Hamburg Germany
Project title	Evidence-based guidelines for the prevention of occupational asthma
Keywords	occupational asthma, prevention, evidence-based, guidelines
Project leader	Ute Latza, Ordinariat und Zentralinstitut für Arbeitsmedizin, Hamburg, Germany
Email address	Email: latza@uke.uni-hamburg.de
Partners (of the CC Network)	- Finnish Institute of Occupational Health, Finland, - Institute and Outpatient Clinic for Occupational and Environmental Medicine, Germany
Other partners	- Department of Occupational Medicine, Bergen,

	<p>Haukeland, Norway</p> <ul style="list-style-type: none"> <li>- Departement of Respiratory Medicine, Birmingham, United Kingdom,</li> <li>- Medical University Dept. Pneumology &amp; Allergy, Poland,</li> <li>- Environmental and Occupational Health Division, Institute for Risk Assessment Sciences, Uthrecht, Netherlands,</li> <li>- Department of Environmental and Occupational Medicine, Aarhus University, Denmark,</li> <li>- Department of Occupational and Environmental Medicine, Goteborg Unirversity, Sweden</li> </ul>
Funding	Proposal for funding by European respiratory Society (ERS)
Objective of the project	The objective is the substantial improvement of the prevention of occupational asthma in order to obtain a reduction of symptoms, morbidity, mortality and expenses
Project outcome(s) and deadline(s) for completion of the project	<ul style="list-style-type: none"> <li>- Evidence-based guidelines for the prevention of occupational asthma with a declaration of the levels of evidence (introduction-chapter with definitions, e.g., occupational asthma, aggravation of pre-existing asthma, background-chapter including a summary of the current knowledge on causes, prevalence / incidence, dose-response relations, risk factors of work-related asthma, objectives of prevention, economic impact, and levels of evidence)</li> <li>- Booklets for the different target groups (e.g., guidelines for primary care physicians and for industrial physicians to initiate appropriate diagnostic and therapeutic measures in suspected cases with occupational asthma).</li> </ul>
Target group and/or beneficiaries	The target group of the intended guideline are workers in all sectors of activity. The target audience are all health care practitioners, i.e. occupational physicians and primary care physicians for fostering education. Given legal differences in the different countries, addition to industrial physicians, workers representatives with specific responsibility for the safety and health of workers may benefit from the guideline.
Summary of the project (max 100 words)	The objective is to summarize the available evidence-based facts. This comprises information on frequency and causes of occupational asthma in order to show urgent necessity for intensified prevention of occupational asthma. Evidence regarding prevention, diagnostic tools and management is critically reviewed. Evidence-based recommendations will be proposed. Useful information, e.g. legal framework conditions for the prevention of occupational asthma in order to describe the basis for the improvement of primary and secondary prevention will be compiled. A set of cases in

	order to compare compensation systems for OA in different countries and to publish leaflets for guidance for different users will be included.
Dissemination	The guidelines will be published as a long version as an internet file and as a short version in an international journal
Impact (global or regional)	Global

<b>54</b>	<b>AA 4: TM6a</b>
<b>Activity Area Number and title</b>	<b>AA4: Education, Training and Technical Materials</b>
<b>CC or NGO Name</b>	National Institute for Occupational Health (NIOH), SA
<b>Project title</b>	The use of autopsy data as a gold standard to develop a set of digital X-rays for silicosis which can be used as reference standards
<b>Keywords</b>	silicosis, pneumoconiosis, digital X-rays
<b>Project leader Email address</b>	Ms. Ntombizodwa Ndlovu zodwa.ndlovu@nioh.nhls.ac.za Prof. Jill Murray <a href="mailto:jill.murray@nioh.nhls.ac.za">jill.murray@nioh.nhls.ac.za</a>
<b>Partners (of the CC Network)</b>	NIOSH (USA), HSL (UK)
<b>Other partners</b>	MBOD - Medical Bureau for Occupational Diseases (SA), Department of Radiology, University of the Witwatersrand (SA) South African Mine Medical Services
<b>Funding</b>	Possible sources of funding - South African Mine Medical Services South African Mine Health and Safety Council
<b>Objective of the project</b>	To produce a set of digital X-rays verified by autopsy findings that can be used for the diagnosis of silicosis.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	To establish if there is enhanced sensitivity for the diagnosis of less extensive silicosis with the use of digital X-rays. To produce a set of digital X-rays.
<b>Target group and/or beneficiaries</b>	All occupational health practitioners
<b>Summary of the project (max 100 words)</b>	Several studies have shown that the specificity of standard X-rays for the diagnosis of silicosis is greater than 90% but the sensitivity is much lower. Digital X-rays are now being widely used in medical surveillance programs. It is believed that these X-rays are more sensitive in the detection of less extensive pneumoconiosis than standard X-rays (e.g. ILO category 0/1 or 1/0). Autopsy findings and pre-mortem digital X-rays in silica exposed subjects (South African gold miners) will be used to establish if there is enhanced

	sensitivity. If so, a set of reference digital X-rays will be developed.
<b>Dissemination</b>	Web based
<b>Impact (global or regional)</b>	Global

<b>55</b>	AA 4: TM6b
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	US National Institute for Occupational Safety and Health (NIOSH)
<b>Project title</b>	Revision of 1996 WHO monograph: Screening and surveillance of workers exposed to mineral dusts
<b>Keywords</b>	Silicosis, asbestos, coal, screening, surveillance, prevention, mineral dusts
<b>Project leader Email address</b>	Gregory R. Wagner, M.D. Senior Advisor, NIOSH <a href="mailto:gwagner@cdc.gov">gwagner@cdc.gov</a>
<b>Partners (of the CC Network)</b>	WHO, ILO
<b>Other partners</b>	
<b>Funding</b>	NIOSH funds for the production of the document. Publication costs to be determined
<b>Objective of the project</b>	Revise the 1996 WHO Monograph entitled "Screening and Surveillance of Workers Exposed to Mineral Dusts"
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>• Obtain reviews of the original document by 12/2006</li> <li>• Draft revised monograph by 12/2007</li> <li>• Complete final review/revision/publication by 12/2008</li> </ul>
<b>Target group and/or beneficiaries</b>	Public health and occupational physicians, ministries of health and labor, and others involved in the WHO-ILO Global Program for Elimination of Silicosis and international efforts at asbestos disease prevention.
<b>Summary of the project (max 100 words)</b>	The 1996 monograph "Screening and Surveillance of Workers Exposed to Mineral Dusts" has provided support and direction for the ILO/WHO Global Program for Elimination of Silicosis. It has been widely used in training courses and translated into at least 4 languages. This revision will incorporate recent scientific material and will respond to recommendations from users and reviewers, particularly among those in the developing world.
<b>Dissemination</b>	This will result in a document, most likely published by WHO and will be distributed by the ILO & WHO as well as

	countries participating in the Global Program for Elimination of Silicosis.
<b>Impact (global or regional)</b>	Global

<b>56</b>	AA 4: TM7
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	National Institute for Occupational Health (NIOH), SA
<b>Project title</b>	Developing Capacity in Biological Monitoring in Occupational and Environmental Health
<b>Keywords</b>	biological monitoring, biological markers, chemical exposures
<b>Project leader</b> <b>Email address</b>	Ms. Inakshi Naik ina.naik@nioh.nhls.ac.za
<b>Partners (of the CC Network)</b>	NIOH: South Africa University of Cape Town (UCT): South Africa HSL (UK) FIOH - Finnish Institute of Occupational Health
<b>Other partners</b>	IOSEM - Institute and Outpatient Clinic for Occupational, Social and Environmental Medicine of the University of Erlangen-Nuremberg (Germany), Nordic Institute of Advanced Training in Occupational Health and Safety (NIVA, Finland)
<b>Funding</b>	<ul style="list-style-type: none"> <li>▪ The project will be partially supported by NIOH</li> <li>▪ By paid delegates for the Biological Monitoring Course</li> <li>▪ By funding obtained for analyses to establish baseline levels of metals in South Africa</li> </ul>
<b>Objective of the project</b>	<ul style="list-style-type: none"> <li>▪ To develop capacity in biological monitoring in occupational and environmental health in South Africa and other southern Africa countries</li> <li>▪ To set baseline standards for the general population in South Africa.</li> </ul>
<b>Project outcome(s) and deadline(s) for completion of the project</b>	<ul style="list-style-type: none"> <li>▪ To establish baseline metal levels in unexposed populations in South Africa from rural, informal, urban and semi urban areas (by end of 2007)</li> <li>▪ To train scientists from SADC countries, at NIOH laboratories, to measure chemical exposures (metals and solvents) in biological samples (2006-2010)</li> <li>▪ To organize and present a comprehensive five-day course: “Biological Monitoring in Occupational and Environmental Health” for South African and SADC participants (early 2007)</li> <li>▪ To develop an information sheet/poster for employees,</li> </ul>

	<p>on the prevention of chemical exposures in the workplace</p> <ul style="list-style-type: none"> <li>▪ To develop guidelines on biological monitoring of chemical exposures in the workplace, for employers (end 2007)</li> </ul>
<b>Target group and/or beneficiaries</b>	<ul style="list-style-type: none"> <li>▪ Occupational health care professionals</li> <li>▪ Scientists with limited laboratory training, from SADC countries, will be trained to measure chemical exposures in biological samples</li> <li>▪ Employers and employees from industries there are possible chemical exposures</li> <li>▪</li> </ul>
<b>Summary of the project (max 100 words)</b>	<p>There is no formal training in biological monitoring in occupational health in South Africa and therefore this project aims to build capacity through presenting an in depth course for health care professional on biological monitoring and providing in-service laboratory training to scientist from southern African countries.</p> <p>Reference values of environmental exposure in the general, non-occupationally exposed population are needed, for comparison to occupationally exposed individuals. No reference values exist in South Africa, hence laboratories are currently using reference values established in the UK, USA or Germany. It is therefore the responsibility of the NIOH to identify reliable reference values for the population.</p>
<b>Dissemination</b>	<p>Publish finding of baseline values in local and international journals.</p> <p>Disseminate information to the Departments of Labour and Health.</p> <p>Using various means - courses, workshops, posters, pamphlets, CDs - to inform employers and employees.</p> <p>Advertise the in-service laboratory training at NIOH in “African Newsletter on Occupational Health and Safety”</p>
<b>Impact (global or regional)</b>	South Africa and other SADC member countries

<b>57</b>	AA 4: TM8
<b>Activity Area Number and title</b>	AA4: Education, Training and Technical Materials
<b>CC or NGO Name</b>	National Institute for Occupational Safety and Health (NIOSH)
<b>Project title</b>	<i>Young Workers Occupational Safety and Health Curriculum</i>
<b>Keywords</b>	Young workers, training,
<b>Project leader Email address</b>	Carol M. Stephenson, PhD Cstephenson@cdc.gov

<b>Partners (of the CC Network)</b>	CC partners desired
<b>Other partners</b>	University and NGO partners in the USA
<b>Funding</b>	NIOSH
<b>Objective of the project</b>	To widely disseminate an occupational safety and health curriculum recently developed by NIOSH for schools and community based entities who can train teen workers.
<b>Project outcome(s) and deadline(s) for completion of the project</b>	Outcomes of the project. <ul style="list-style-type: none"> <li>• To finalize development of the curriculum (by early 2006)</li> <li>• To translate the curriculum into Spanish (by 2007)</li> <li>• To widely disseminate the curriculum electronically through the NIOSH web site and WHO educational gateway beginning in 2006</li> <li>• To provide a model for use or modification by others</li> <li>• To gather and share globally OSOH curricula from other countries for young workers</li> </ul>
<b>Target group and/or beneficiaries</b>	Beneficiaries of the completed project include all entities interested in preventing occupational safety and health injuries and fatalities in young workers: High school teachers, parents, employers, training and apprentice programs, NGOs providing services to teens, and government agencies responsible for teen workers.
<b>Summary of the project (max 100 words)</b>	A curriculum has been developed and pilot tested in the U.S. It will be finalized early in 2006 and made available through electronic distribution. It is designed to train youth and their teachers in basic occupational safety and health principles to that they will enter the workplace more aware of hazards, have skills recognizing occupational safety and health hazards, and have knowledge as to how to seek assistance in correcting dangerous work situations. The curriculum is designed for participatory learning.
<b>Dissemination</b>	Method of dissemination: Web based dissemination of the curriculum teacher's guide and classroom materials so that teachers may print off and create materials they need. NGO partners may choose to disseminate printed versions of the curriculum.
<b>Impact (global or regional)</b>	Global

<b>Activity Area Number</b>	AA4: Education, Training and Technical Materials <b>Was originally submitted to AA 2:</b>
<b>CC or NGO Name</b>	Office of the Australian Safety and Compensation Council (Office of the ASCC), Department of Employment and Workplace Relations
<b>Project title</b>	Contributing to the evidence on occupational health
<b>Keywords</b>	Systematic reviews, occupational health, manual handling, back pain, construction industry, agriculture industry, pre employment testing, shift work
<b>Project leader Email address</b>	Dr Peta Miller Peta.Miller@dewr.gov.au
<b>Partners (of the Collaboration Centres Network)</b>	Finnish Institute of Occupational Health
<b>Other partners</b>	Other research institutes undertaking reviews
<b>Funding</b>	Australian Government
<b>Objective of the project</b>	To improve the evidence base about the causes of occupational injury and disease and their prevention by supporting the work of the Cochrane Occupational Health Field at the Finnish Institute of Occupational Health
<b>Project outcome(s) and deadline(s) for completion of the project</b>	To conduct systematic reviews on occupational health issues  Commencement date 2005 project ongoing
<b>Target group and/or beneficiaries</b>	International health and occupational health regulators, policy agencies, researchers, employers, unions, and workers.
<b>Summary of the project (max 100 words)</b>	This will be an ongoing project providing financial and practical support for the Cochrane Occupational Health field. Projects include: 2006: manual handling training, prevention of falls in construction industry, injury prevention in agriculture industry, efficacy of pre employment testing, health effects of shift work 2007-2010: topics to be determined
<b>Dissemination</b>	The systematic reviews will be reported on the international Cochrane review website, international journals and the Australian Safety and Compensation Council website <a href="http://www.ascc.gov.au">http://www.ascc.gov.au</a> and at international and national annual reports, meetings, conferences and symposia.
<b>Impact (global or regional)</b>	Global