THE COLLECTIVE ACHIEVEMENTS OF EDUCATION FOR SUSTAINABLE DEVELOPMENT (ESD) IN HIGHER EDUCATION IN THE MEDITERRANEAN

LES RÉALISATIONS COLLECTIVES DE L’ÉDUCATION POUR LE DÉVELOPPEMENT DURABLE (EDD) DANS L’ENSEIGNEMENT SUPÉRIEUR EN MÉDITERRANÉE
This special issue of “Sustainable Mediterranean” which is devoted to the collective achievements of Education for Sustainable Development (ESD) in the Mediterranean, with particular emphasis on ESD ac-

This is because one of the Mediterranean countries belong to the UNECE region, the Mediterranean Strategy for Sustainable Development (MEDIES) has provided a flexible framework for the Mediterranean countries to integrate ESD into all forms and levels of their education systems, including HE, by adapting it according to national needs and priorities. Though the UNECE Strategy was helpful, it didn’t cover the diversity of Mediterranean countries, which is meant as an input to the works of the Nagoya Conference that celebrates the end of the UN Decade on Education for Sustainable Development (2005-2014) and its follow-

The Mediterranean has been in the forefront in the conceptualization and introduction of ESD with champion Higher Education Institutions (HEIs) and NGOs. The two milestone UNESCO meetings for its introduction (regional workshop “Reorienting Environmental Education for Sustainable Development”, Athens, June 1995; International Conference “Environment and Society: Education for Sustainable Development”, Athens, November 1997) were organised by UNESCO, MIO-ECSDE and the University of Athens with the support of the Government of Greece.

The same partners established in Johannesburg in 2002 the Mediterranean Education Initiative for Sustainability and Quality (MEDIES), an initiative that links today more than 5,000 educators interested on ESD. As a consequence, ESD introduction and implementation in the Mediterranean region is realized partly within the support of the Horizon 2020 programme and endorsed in Athens, in May 2014, by the 43 Ministers of Environment of the UfM and the 15 HEIs that signed the Athens Declaration.

The overall process has followed two paths: a) regional one which has involved Governments, IOs, HEIs, NGOs and other stakeholders. In this process, which is the main focus of the present issue, the UNESCO Chair of the University of Athens on Sustainable Development Management and Education in the Mediterranean and MO-ECSDE have played an important role; b) the national pathways, developed by the Governments, HEIs and other stakeholders active, mostly, at national and local level.

Despite practical difficulties and shortcomings, ESD was well received and properly understood in the region as a natural evolution of the Mediterranean region, since the Mediterranean is a natural evolution of the well-rooted in the Mediterranean region was, in general, successful but undoubtedly “uneven”, with considerable variation in the depth of interventions and the impact obtained in its different sub-regions and countries.

In this special issue of “Sustainable Mediterranean”, we have tried to highlight some of the best practices and ESD initiatives related to HE in the Mediterranean region, which pave the way for a productive and stimulating post-2014 period.
Statement from the Union for the Mediterranean (UfM)

Higher Education and Research, together with Sustainable Development, are founding pillars of the Euro-Mediterranean cooperation. With a view to promote joint actions and projects in education, considered a prerequisite for achieving human development and a tool to good governance, the Mediterranean Strategy on Education for Sustainable Development (MSESD) was recently approved by the 43 countries of the Union for the Mediterranean, within the joint declaration of the UfM Ministerial Meeting on Environment and Climate change held in May 2014. On that occasion, Ministers recognized the importance of empowering people with knowledge and skills in sustainable development through formal, non-formal and informal learning. The UfM Secretariat was called to promote, implement, monitor and report on the progress in the implementation of the MSESD. Standing as a platform of cooperation for Euro-Mediterranean stakeholders and an anchor of concrete regional projects, the UfM Secretariat is committed to support relevant upcoming initiatives addressing Education for Sustainable Development within the wider objective to advance towards a Euro-Mediterranean Higher Education Area.

Dr. John Cortes, Minister for Health and the Environment
H.M. GOVERNMENT OF GIBRALTAR

MESSAGE

By the host of the Mediterranean Expert Group Meeting on Sustainable Development in Higher Education

I t was my privilege recently, on behalf of Her Majesty’s Government of Gibraltar, to host a meeting of the Expert Group on sustainability through higher education in the small, but iconic corner of the Mediterranean from where I am writing these words.

The Rock of Gibraltar almost defines the western beginning of the Mediterranean. Its history is rich and cosmopolitan, like so much else around its shores, and research into its prehistory in particular is becoming increasingly recognised as making a significant contribution to the knowledge of our ancient past. As it was for the Neanderthals, the Mediterranean, as we all know, is a special place for us who live around its shores, but also for those who visit and interact with this environment. Ecologically, as a complex of unique ecosystems, and as a staging post in migration, it makes a significant contribution beyond its immediate boundaries, much as historically it has had a huge influence on the history of a world beyond its shores. This is recognised by multiple policy and legislative frameworks that support the protection of its environment and biodiversity as well as enhancement of the quality of life of people in the region.

The Government of Gibraltar has made sustainability a key element in all of its policies. Thus we have for example increased the size of our protected areas, embarked on habitat creation and replenishment of lost biodiversity, and are embarking on projects to reduce pollution and utilise the sea and the sun for generating our energy.

The recent meeting in Gibraltar was significant. It showed once again the importance of having Mediterranean partnership platforms, United Nations agencies, and others working closely together.

The meeting acknowledged key agreements and sub-regional partnerships that operate in the Mediterranean including the Strategy on Environment and Sustainable Development and the recently agreed Mediterranean Strategy on Education for sustainable development.

I encouraged the Expert Group to recognise the pressures on the environment but also the disparities in wealth, health and quality of life in the region.

Most importantly, the Expert Group focused on the unique and significant contribution that Higher Education can, and will make to the sustainable development of the Mediterranean.

For its own part, Gibraltar will open its new University in September 2015, and is committed to ensuring that the concept of sustainability runs as a theme through its programmes.

The importance of Higher Education in making ESD an integral part of the thinking not just of current and future scientists and educators, but crucially of decision makers, is critical to the success of our Region and the world beyond.

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THE NETWORK OF MEDITERRANEAN UNIVERSITIES FOR SD WITH EMPHASIS ON ESD (MedUnNet)

By Prof. Michael Scoullos

The Network of the Mediterranean Universities for Sustainable Development focusing on Education for Sustainable Development (MedUnNet) was officially launched in Athens, in November 2008. The network is comprised of 20 members representing universities from 25 countries involving more than 60 professors.

MedUnNet facilitates the integration of sustainable development in the Mediterranean universities: In this respect the Network, on one hand, creates the opportunities for synergies in the field of ESD, and on the other, organises capacity building activities for university staff on ESD. More particularly MedUnNet aims at:

• developing the competences of the university staff regarding ESD.
• Promoting the whole institute approach in the Universities of the region.
• Providing a forum for consultation among Universities and key ESD stakeholders.
• Interacting actively with the society and particularly with NGOs, decision makers and the press by fully utilising the framework offered by the UNECSO Chair and MEdIES.
• Creating the opportunities for synergy of existing efforts for the promotion of ESD in HE in the region, and beyond.

The ultimate goal of the network is the creation of a joint Mediterranean master course in ESD among the partners universities.

The Network focuses on developing the competences of the university staff in implementing ESD in their courses by organising related seminars and trainings (Uppsala, 2008; Amfissa, 2010; Athens, 2011; Rabat, 2013; Amfissa, 2014; see page 19 etc.) during which professors are trained by international experts in the background, principles and the pedagogies of ESD in higher education; are introduced in the concept of the sustainable university/whole of institute approach and its requirements; and share experiences and successful applied ESD practices. Since 2008, approx. 500 university professors have been trained. The Network through its capacity building activities (seminars, workshops, etc.) focuses in developing the competences of educators, based on the relevant UNECE work, and in particular:

(i) The holistic approach in the professors’ teaching approaches, integrating the natural, social and economic parameters in their courses, connecting the learners to their local and global spheres of influence, as well as highlighting the various players across places and disciplines
(ii) Envisioning change from the unsustainable practices towards advancing quality of life, equity, solidarity, and environmental sustainability, starting from their own institute and motivating students to make a positive contribution to their social and natural environment
(iii) The transformative pedagogy starting by being the professor him/her self a facilitator and active participant in the learning process, applying learner-centred teaching methods, developing critical thinking and active citizenship and assessing the learning outcomes in terms of changes and achievements in relation to sustainable development.

MedUnNet serves also as an active platform for consultation among the universities and key ESD stakeholders.

In this line, it has substantially contributed to the drafting process of the Mediterranean Strategy on ESD which was endorsed in May 2014 in Athens by the 48 Euro-Mediterranean Ministers for Environment (UfM) (see page 20).

The University of Athens/ UNESCO Chair on Sustainable Development Management and Education in the Mediterranean provides the host and the Scientific Secretariat of the Network, while MEO-ESDE through the MEdIES network provides the Administrative Secretariat.

The aforementioned Institutes support also financially its operation. UNESCO-BRESCE has supported the Network’s activities since the beginning, while several activities (policy consultations, seminars, summerschools, etc.) have been funded by European Programmes (H2020, ENP/MEP, ERASMUS, etc.) as well as governments and private donors (VEOLIA).

GIBRALTAR HOSTS AN EXPERT GROUP MEETING ON HIGHER EDUCATION FOR SUSTAINABLE DEVELOPMENT IN THE MEDITERRANEAN

By Prof. Daniella Tilbury & Prof. Michael Scoullos, Expert Group meeting convenors

The Mediterranean is a special place for those who live around its shores but also for those who visit and interact with this environment. As an ecosystem, it makes a significant contribution beyond its immediate boundaries. This is recognised by multiple policy and legislative frameworks that support the protection of its environment and biodiversity as well as enhancement of quality of life of people in the region.

The Gibraltar Government hosted an Expert Group meeting on Higher Education for Sustainable Development in the Mediterranean on the 28-29th July 2014. Over 20 experts from across Northern and Southern Mediterranean countries including Italy, Gibraltar, Greece, Malta, Monaco, Morocco, Portugal, Spain and Tunisia were present.

The meeting was opened by the Hon Dr John Cortes, Minister for Education, Health and Environment of Gibraltar, who asked experts to recognise that the Mediterranean is a special place for those who live around its shores but also for those who visit and interact with this environment. Experts considered the multiple policy and legislative frameworks that support the protection of its environment and biodiversity, as well as the sustainable development of the Mediterranean. They were asked to draft an Action Plan for HE collaboration across the region.

Building upon three key strategic frameworks: the United Nations Economic Council for Europe (UNECE) ESD Strategy, which is ‘mature’ accompanied with sets of tools (indicators, educators competences etc) attached and tested; the Mediterranean Strategy for ESD (MISED), a ‘daughter’ of the above, just endorsed by the 43 Ministers of the UfM, currently the Action Plan for the implementation of MISED is in cooperation under the guidance of the UfM Secretariat; and the Mediterranean Strategy for Sustainable Development (MISED), under the Barcelona Convention, the second phase of which is currently under consultation.

The draft Action Plan for Higher Education for Sustainable Development in the Mediterranean will recognise the pressures this environment is under given tourism, agriculture, trade and other economic activities as well as the disparities in wealth, opportunities for development and quality of life across the region. It will acknowledge that HE has a unique and significant contribution to make to the sustainable development of the Mediterranean.

The Action Plan will identify key priority actions and partnership platforms to progress these within realistic timeframes. It will recognise that the region is changing rapidly and that there is an urgency to build North-South and East-West collaboration of HEIs across the Mediterranean. Co-ownership and co-decision making are seen as pre-requisites for the partnership pathways proposed in the documents.

Those drafting the Action Plan identified key actions and supported the extension of the UfM project (see p. 16) across the region and exchange of experiences with relevant NGOs and Universities. Engaging civil society in the planning and delivery of the action plan was seen as key to its success. Experts present recognised the importance of NGOs, in particular, in helping re-orient the curriculum towards SD in Universities. The Action Plan also acknowledges need to align this important document with the recently endorsed MISED.

The document is underpinned by a vision of change that is participatory, culturally inclusive and transformative. It recognises that currently, HE for Sustainable Development is dependent on single visionary rectors, professors, managers rather than being an integral part of strategy or leadership. Leadership development is highlighted as a critical action point for the Mediterranean.

Underscoring the draft Action Plan is a view that for HE to make a genuine contribution to transforming communities and society towards sustainable development, it must transform itself first. This is a key principle of the Rio+20 Higher Education Treaty on Sustainability and one that has already been endorsed by over 140 universities. This transformative process is a complex one and experts at the meeting recognised that it must take place in a culturally relevant and connected way. A list of indicators will be developed to support the Action Plan and monitor sustainability and ESD performances of HEIs. These will be informed by the experiences of Spanish CRUE and Latin American ARUSSA initiative.

The draft Action Plan will be shared with stakeholders in Nagoya at the UfM Summit on Higher Education for Sustainable Development (November 2014) and at the UfM Ministerial meeting (May 2015). These consultations will serve to refine the actions and extend the partnership beyond those attending this initial expert group meeting. There are plans for a future meeting to finalise and launch the Action Plan in July 2015.
The Sustainable Development Solutions Network (SDSN) is a collaborative network of academic and research institutions launched in August 2012 under the auspices of UN Secretary-General Ban Ki-moon to accelerate practical problem solving for sustainable development and to support the framing of the development objectives for the next two decades (tentatively referred to as Sustainable Development Goals). MED Solutions (UN SDSN Mediterranean) is SDSN in the Mediterranean region, coordinated by the University of Siena, Italy. MED Solutions mission is to promote and strengthen local and national problem solving for sustainable development by empowering universities, research centres, private companies, public institutions, NGOs and networks to play more active and effective roles in facing common challenges in the Mediterranean.

Our main activities in the area of higher education include two main components:

1. Innovation in teaching and localization

UNSDN Mediterranean promotes the collaboration of institutions in the region of the SDSN by assisting them in developing and improving teaching materials and courses on sustainable development. This work is carried out in partnership with scholars at the University of Siena, which developed the course on sustainability, and is administered an elective class held at the Department of Ecotoxicology and Environmental Sustainability of the University of Siena under the supervision of Prof. Simone Battistoni. The rationale of the course is to facilitate the exchange of teaching and research materials from an integrated perspective, including biology, energy, global changes, ecology, waste management, green economy, agriculture and the management of land resources. The course is designed to train students and educators (as well as all the other interested participants) to think in sustainability terms, in all senses. In September 2015, the negotiation over the Sustainable Development Goals was finalized. Until that date, one of the key priorities of our network will be to ensure that a Mediterranean perspective is adequately taken into account in all relevant documents and acts which will be approved at the global level. We believe this is important not only as the post-2015 agenda will be part and parcel of the future in which we will all have to operate, but also consistently with our vision of the Mediterranean as a highly interconnected region characterized by economic growth, social inclusion and environmental sustainability.

2. Holistic research development

MED Solutions helps shape the research work of its 48 partners producing synergies aimed at identifying and promoting sustainable development solutions in the Mediterranean Region. In order to create momentum on the most cogent challenges facing all Mediterranean countries, we have chosen “Sustainable Agro-food Culture in the Post-2015 Era - From Tuscany to the Mediterranean Context” as the topic cluster of the Second International MED Solutions Conference, which will be held in Siena, Italy on May 5 and 6, 2015.

Agriculture and food will play a prominent role in the post-2015 agenda, for all countries in the Mediterranean and beyond. A sustainable development path for future food systems will require transformative changes in technologies, policies and behavior of all actors along the whole food chain. Many interventions are needed and not all can be done at once and in every country. Changing diets towards healthier, less resource-intensive food is likely to be a slow, uneven process. On the supply side, a critical issue is to increase production on existing crop land by closing yield and efficiency gaps and thus utilizing natural resources more widely, but all this needs to be done in the context of meeting consumer demands for safe, high-quality food. Wide access to state of the art knowledge and technology is a prerequisite for achieving a sustainable intensification of agriculture. Many of the solutions exist or could, with wise investments, become available in the next 10-20 years. The Mediterranean region has a long history of food production and food culture in an environment that presents many socioeconomic and biophysical challenges. New technologies and new business models for farming and food processing will need to play a major role in the region’s future agriculture. This includes not only the realisation of current pathways and solutions for the region to become a showcase for sustainable agro-food culture, but also responsive business development as a key driver for rural development and sustainable use of natural resources for high-quality food production.

For further general information on our network and how to join it please visit: www.medolutions.unisi.it

By Prof. Daniella Tilbury, President, Copernicus Alliance and Prof. Clemens Adler, Vice President, Copernicus Alliance

The Rio+20 Treaty on Higher Education is an international initiative coordinated by COPERNICUS Alliance with the support of A4 and the network of the international organizations of HE, networks, groups and institutions that are seeking to build more sustainable futures. It was developed through a lengthy collaborative process involving over 75 civil society and key experts on HE and sustainability, and was launched in June 2012 at the Rio+20 Conference on Sustainable Development. It reflects over 100 signatories from around the globe and calls for transformation across the higher education sector towards sustainable development. The Treaty features as an important implementation plan at the Nagoya Higher Education and SDG meeting scheduled for November 2014.

As an influence of these partnerships and treaties continues to grow, it is expected that they will stimulate further developments across the sector in coming years. The Global Action Programme on ESD should recognize their catalytic potential and mobilize support around these collaborative efforts and the Sustainable Development Goals monitor their reach and impact as they ripple changes across social groups and regions.

By Prof. Angelo Riccoboni, Rector, University of Siena
COPERNICUS Alliance has a long history and established reputation for its work in incentivising the HE sector in Europe to engage more effectively with the sustainability agenda. The Alliance finds its origins in 1993, when the European University Association (EUA) and the European University Association, in collaboration with the European Commission, developed the Charter for Sustainability in Higher Education and the European Union Erasmus Project ‘University Education and Training for Sustainable Development’ (UE4SD).

In 2010, COPERNICUS Alliance was launched as a network with the aim of bringing together signatories of the Charta and other organisations across Europe to rethink the role of HE and embed sustainability at the core of the European HE system.

TEN YEARS OF THE COMMISSION FOR ENVIRONMENTAL QUALITY, SUSTAINABLE DEVELOPMENT AND RISK PREVENTION (CADEP) OF THE CONFERENCE OF RECTORS OF SPANISH UNIVERSITIES (CRUE)

By Prof. Fernando Galán Rosas, CADEP/CRUE Chairman & Rector of the University of Alcalá and Prof. Javier Benayas del Alamo, CADEP/CRUE Executive Secretary & Vice Director of the INAIUC Institute

In 2014, beside many local or regional initiatives, COPERNICUS Alliance members are collectively engaged in two key projects: the implementation of the Rio+20 Higher Education Treaty for Sustainable Development and the European Union Erasmus Project ‘University Educators for Sustainable Development’ (UE4SD).

One of the actions most frequently carried out by this Commission has been the draft of institutional declarations on specific subjects like, for example, the declarations on the introduction of sustainability in curricula, on preventive culture or on sustainable procurement measures. But one of the most significant advances of the Commission is undoubtedly the involvement of the nine working groups in the design of specific studies aimed at assessing the commitments to sustainability of Spanish universities. Some of the most relevant reports focus on the incorporation of renewable energy infrastructures into Spanish universities (2008), on actions in favour of sustainable mobility in Spanish universities (2009) or more specifically, on the use and promotion of bicycles on campus (2011), on waste management (2010) or on the use and management of paper at the university (2011).

Perhaps the study which has had greater impact in the media and on university reports is the one on the Energy Saving and Diversification Institute (IDEA), which included a thorough analysis of the evolution of electric consumption of Spanish universities. Such study proved that universities had reduced their consumption from 1,300 kwh/scholar in 2010 to less than 1,150 kwh/scholar in 2011. This implies a reduction of around 12% of the overall electric consumption of Spanish universities altogether, an amount which means a saving of 10 to 15 million euros. Although the global crisis is indeed contributing to develop and apply such energy-saving policies and resource consumption economic-efficiency policies in the management of universities, it is also helping some of them to initiate processes to rethink about their daily practices that were unsustainable and which required deep transformations.

Another relevant study recently led by CADEP consists in the elaboration of an indicator system for the monitoring of the sustainability policies of Spanish universities (2012). This initiative, developed by the Sustainability Assessment Group, provides a questionnaire of 176 indicators, divided into four main areas (administration, teaching, research and management) and twelve analytical sections. As a summary of the results of this study, it was found out that the main advances and interventions were carried out in the area of campus management, and specifically in the activities related with raising an environmental awareness among the members of the university community. In particular, good practices were those aimed at the increase and diversification of green areas, the improvement of the management of toxic and dangerous wastes with further selective separation and disposal of general wastes, the implementation of new policies to promote a more sustainable transportation such as the use of bicycles, as well as the introduction of some measures to reduce energy consumption.

To a lesser extent, specific programs were developed on the social responsibility of the institutions, the environmental impact assessment of university activities, the water management or the implementation of green purchase policies. This questionnaire has become no doubt a great help for Spanish universities in order to identify their weaknesses and shortcomings, so that they can define more clearly their policies and strategies committed to sustainability.

In 2014 this working group has been focusing on developing an interactive computer application that will allow all Spanish universities to directly complete the sustainability indicator system and thus obtain immediate results. So the application can be used by universities as a continuous self-evaluation tool in order to test their policies. Moreover, this system aims to reward those universities that fulfill more than 80% of the criteria by opting for a formal recognition of their high-level commitment towards sustainability. This app will soon be available on the CRUE website.

Another interesting development within CADEP working groups has consisted in the identification of good practices that could be used as a reference by other universities. This is particularly useful to those universities that are now beginning to apply sustainability policies on their campuses. In this regard, the Mobility & University Group is working on the identification and selection of good practices related to mobility and accessibility in Spanish universities. Also, the Group of Environmental Improvements of Buildings focused last year on the elaboration of a report containing proposals for the application of a Plan of Rationalization of the universities expenditure related to energy and natural resources consumption. But surely the complete document, that includes a wide set of examples, is the evaluation report previously mentioned, which can be accessed at: www.crue.org/sostenibilidad/CADEP/documented/ Documentos/Fichas de buenas prácticas.pdf

This document contains up to fifty-two files developed by thirty-one Spanish universities; proposals are classified in twelve categories and comprise a diversity of issues, such as the implementation at university of an environmental management system ISO 14001, the implementation of management systems based on the Agenda 21 Framework, among others. There are also proposals for the integration of environmental criteria in the organization of events and meetings, for the creation of a symbiotic water treatment plant, for energy-saving in computer equipments or for the establishment of a bicycle exchange centre. As part of this large list, many practical proposals that have previously proved successful at some particular universities are presented.

Spanish universities also participate individually in the World Universities Ranking ‘Greenermic’ with remarkable results. Six of them are positioned among the 100 best universities in the world, and two of them are on the top 25 (the University Alcalá and the Autonomous University of Madrid, ranked as 12th and 24th respectively). Regardless of these individual results, what really moves all these universities, since the establishment of the CADEP Commission, is working together in order to progress faster and achieve more ambitious goals. In this context, collaboration strategies are encouraged rather than competition, in order to set an example of sustainability by applying it also in the way we conduct our work. Such approach –we believe– is regarded by many as the main success of CADEP.

Read more at www.crue.org, www.crue.org/sostenibilidad/CADEP

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stablished in the frame of the Declaration of the Paris Summit for the Mediterranean (July 2008), the EMUNI University is an international network of over 200 universities with headquarters in Slovenia. The main mission of the EMUNI University is to strengthen mutual understanding and intercultural dialogue among Euro-Mediterranean countries by implementing postgraduate study and research programmes, which will significantly contribute towards the development of Higher Edu-

cation, Science and Research.

EMUNI is promoter of the UFM-labelled project, Euro-
Mediterranean Master and PhD programmes. The project will be implemented at Universities which are part of the EMU-

NI network and will contribute to the mobility of stu-
dents, professors and researchers from both rims of the Mediterranean. The programmes will focus on priority topics or areas which have an important impact on the development of the Euro-Mediterranean region.

Since its establishment in 2008, the EMUNI Universi-
ty has become an international institution, which gath-
er expert knowledge and experience of the Euro-Medi-
terranean countries and thus contributes in a significant way to the creation of a unified, integrated Euro-Medi-
terranean higher education and research area.

Read more: www.emuni.si

THE EMUNI EURO-MEDITERRANEAN UNIVERSITY OF SLOVENIA

By Iro Alampei, MEdIES Secretariat

THE UNIMED MEDITERRANEAN UNIVERSITIES UNION

By Iro Alampei, MEdIES Secretariat

NIMED, Mediterranean Universities Union, founded in the early 1990s, is an Association of Universities from countries in the Euro-Mediterranean basin. UNIMED’s main aim is to develop scientific and educational cooperation in the Euro-Mediterranean region, in order to contribute to the process of integration between the two Mediterra-

nean shores. UNIMED collaborates with its network uni-

versities in several activities in different fields including among others tangible and intangible cultural heritage, economics, energy, environment, management of water

resources, transports, health, media, new technologies, history, agriculture, tourism. The image that represents the association better, is, in the founders’ words “a Uni-

versity without walls”.

UNIMED carries out activities such as promoting the international dimension of universities, fund raising, mobilising of academic staff and students in the Euro-

Mediterranean region, providing technical assistance, establishing thematic sub-networks, organising nation-

al and international conferences, seminars, training of academic and administrative staff of universities.

In 2009 UNIMED launched MedArabNews, a website aiming to provide in-depth political, economic and social analysis relevant to the Mediterranean and the Arab worlds.

Read more: www.medarabnews.com, www.uni-med.net

L’ÉDUCATION POUR LE DÉVELOPPEMENT DURABLE DANS L’ENSEIGNEMENT SUPÉRIEUR AU MAROC: CAS DE L’UNIVERSITÉ MOHAMED V SOUISSI – RABAT

Prof. Mohamed Fouhli, Université Mohamed V de Rabat

Introduction

L’ÉDUCATION POUR LE DÉVELOPPEMENT DURABLE DANS L’ENSEIGNEMENT SUPÉRIEUR AU MAROC: CAS DE L’UNIVERSITÉ MOHAMED V SOUISSI – RABAT

Prof. Mohamed Fouhli, Université Mohamed V de Rabat

l’ÉDUCATION POUR LE DÉVELOPPEMENT DURABLE DANS L’ENSEIGNEMENT SUPÉRIEUR AU MAROC: CAS DE L’UNIVERSITÉ MOHAMED V SOUISSI – RABAT

Prof. Mohamed Fouhli, Université Mohamed V de Rabat

Le cas de l’ÉDD à l’université Mohamed V

L’université Mohamed V Souissi & l’université Mohamed V - Agdal sont les deux universités qui constituent la mère du système national de l’enseignement supérieur au Maroc.

L’université Mohamed V dont le siège est localisé dans la capitale Rabat, est la plus ancienne université du Ma-

roc. Sa création remonte à l’année 1957 (au lendemain de l’indépendance du pays). Elle a été divisée en 1992 en deux universités: Université Mohamed V Agdal & Univer-

sité Mohamed V Souissi qui fait partie du réseau des uni-

versités Méditerranéennes impliquées dans la promotion de l’éducation pour le développement durable (Réseau initié par le MIO-ECSEDE). Depuis la rentrée académique 2008-2009, deux universités: Mohamed V Agdal et Mo-

hamed V Souissi ont été regroupées, à nouveau dans une seul université: université Mohamed V de Rabat.

L’EDD au sein de l’université Mohamed V Souissi

Les thèmes en relation avec les objectifs de l’éducation pour le développement durable sont présents à l’univer-

sité Mohamed V Souissi dans les activités d’enseigne-

ment, de recherche et des activités de rayonnement. Ils sont traités dans les sciences de l’ingénierie, les sciences médicales, les sciences sociales et juridiques, les sciences de l’éducation et ce, au niveau de filières Licence, licence professionnelle, master & doctorat.

Notons que la déclension des Nations-Unies consacrée à l’EDD ainsi que l’adhésion de l’université Mohamed V Souis-

si au Circle “MIO-ESFDE des universités Méditerranéennes

impliquées dans la promotion des activités EDD” étaient deux facteurs importants pour introduire et renforcer les objectifs, les concepts et les procédés pédagogiques relatifs à l’EDD dans le système éducatif marocain en général, et au niveau de l’université Mohamed V Souissi en particulier.

À cet égard, cette université était active dans le proces-
sus de la préparation de RIO+20 au niveau national. Elle a joué également un rôle important dans la dissémination des principes de l’EDD à d’autres universités marocaines (un atelier de formation Horizon 2020 était organisé sous le Thème de l’EDD à l’université: Théories & pratiques à la Faculté des Sciences de l’éducation - université Moha-

med V Souissi, et dont les bénéficiaires étaient composés des enseignants chercheurs et du staff administratif ven-

nant de plus de 10 universités marocaines / 23-24 avril 2013). Les questions de l’enseignement & du développe-

mment sont enseignés dans plusieurs établissements rele-

vant de l’université Mohamed V de Rabat (Faculté des Sciences, Faculté des Lettres & des Sciences Humaines, Facultés des Sciences de l’éducation, l’Institut Scientifique, l’École Mohamédia d’Ingénieurs, Facultés des Sciences Juridiques, économiques et Sociales, Ecoles normales supérieures, ainsi que dans d’autres établissements de l’enseignement supérieur non universitaires tels que l’Institut Agro-

nomique et vétérinaire Hassan II, l’école forestière de Salé, l’école na-

tionale de l’industrie minérale).

Néanmoins, la dimension éducative de l’EDD, telle qu’elle a été définie par la littérature éducative spécialisée (UNESCO, ISESCO, Scoullos & autres) pose toujours un problème de confusion entre le savoir purement scienti-

ifique du Développement durable, répandu à une grande échelle dans la pratique universitaire actuelle et le savoir éducatif de l’EDD qui combine, selon une approche holis-

tique la dimension pédagogique et la dimension scienti-

fique des questions du développement durable.

Pour illustrer notre propos, on présente quelques exemples des questions relatives à l’EDD dans certaines formations au sein de l’université Mohamed V Souissi.

Exemple 1: L’EDD dans la Faculté des Sciences de l’éducation

On trouve les concepts de l’EDD au niveau du Master “Di-

dactique des Sciences Sociales & communication” et de l’école doctorale” Homme, Société & Education:

Les axes qui se recoupent avec les préoccupations de l’EDD au niveau du Master précité, notamment à travers la Didactique de la géographie sont l’eau, les déchets, le littoral, la biodiversité, l’énergie, les changements cli-

matiques, le développement local, l’éducation relative à l’environnement à l’éducation pour le développement.

Pour illustrer notre propos, on présente quelques exemples des questions relatives à l’EDD dans certaines formations au sein de l’université Mohamed V Souissi.
durable, la communication sociétale et son application à l'environnement & au développement durable au niveau local, national et international. La pratique pédagogique adoptée est axée sur une di- mension environnementale, sociale, éthique, histo- rique, scientifique, économique et politique, elle accorde une grande importance à la pratique sur le terrain. Les méthodes d'enseignement: Apprentissage utilisées sont des méthodes participatives axées sur la recherche per- sonnelle et le travail de groupes, ainsi que l'invitation des experts & des professionnels, l’étude de cas et les visites à des sites d’intérêts biologique, écologiques et culturels sont largement utilisées (Exemple Site Ramsar de Sidi Bouhagha sur la côte Atlantique au nord de Rabat).

Cette pratique se base sur des cours interdisciplinaires d’education pour le développement durable, conçu pour explorer le concept du développement durable en tant que concept inhérent à une multitude de considérations globales et locales, intégrant les volets économiques, sociaux, environnementaux du développement durable. Au niveau de la formation doctorale, on peut citer l’exemple du centre des études doctorales “CEDOC”: Homme, Société & Education, notamment structure de recherche intitulée: Education et Communication en matière de Population, Environnement & Développement - GRECED du l’EDD est présente à travers des éléments comme: les compé- tences Solides. Parmi Les modules qui se recoupent avec l’enseignement de la géographie.

**Exemple 2: L’EDD dans l’école normale supérieure de l’enseignement technique-Université Mohamed V Souissi**

La formation -recherche en lien avec l’EDD existe aussi dans les cursus de l’école Normale Supérieure de l’Ensei- gnement Technique (ENSET) et ce, à travers la Licence dans les cursus de l’école Normale Supérieure de l’Ensei- gnement Technique-université

**Autres activités relatives à l’EDD au sein de l’Université Mohamed V Souissi**

L’université Mohamed V Souissi a également contribué à la promotion de l’EDD à travers des activités de rayonne- ment, destinés au large public.

A cet égard des rencontres régulières de sensibilisa- tion et d’échange sur les questions du DD, Intitulé Green University et Forums de l’EDD ont été organisés mensuel- lement au cours de deux dernières années, et dont les bénéficiaires étaient composés des invités représentant des ONG, du média, des étus, de l’administration en plus des étudiants et des enseignants. Parmi les thèmes de ce Forums de rayonnement “université- milieu” on peut ci- ter à titre d’exemples:

- le développement durable au Maroc: Quel est le rôle des valeurs de l’université, 4 juin 2012
- le bilan du développement durable au Maroc: la transition vers l’économie verte, 28 février 2013
- la gestion des déchets au Maroc: Défis et Perspec- tives de développement durable, 27 octobre 2013
- la charte nationale de l’environnement et du dé- veloppement durable, 27 février 2014
- la santé, l’environnement & le développement durable, 27 mars 2014
- le Maroc & les changements climatiques, 22 avril 2014
- la gestion des ressources en eau au niveau du Bas- sin du Bouregreg et de la Chaouia, problématique et défis, 22 mai 2014.

Avec le fusionnement de deux universités localisées dans la capitale Rabat: l’université Mohamed V Agdal et l’uni- versité Mohamed V Souissi qui sont devenues un seul éta- blissement “Université Mohamad V de Rabat”, la place de l’EDD sera renforcée dans trois nouvelles filières accap- tées à partir de l’année académique 2014-2015, 01 un module transversal -interdisciplinaire nommé Education pour l’En- vironnement et le Développement Durable sera assurée dans 3 établissements universitaires de l’université:


**Le Module commun transversal: l’Education pour l’Environnement & le DD**

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<tr>
<th>Etablissement d'attache</th>
<th>Faculté des Sciences de l'éducation</th>
<th>ENSET</th>
<th>Faculté des Sciences juridiques</th>
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<th>Intitule de la filière</th>
<th>Master Enseignement des Sciences Sociales et Développement Durable</th>
<th>Master Sciences de l’Eau, de l’Energie et de l’Environnement</th>
<th>Master Environnement et Développement Durable</th>
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**Conclusion**


**Bibliographie**


**ICTS, OPEN COURSES AND MOOCs: IMPLICATIONS FOR HIGHER EDUCATION**

By Prof. Michel Ricard, University of Bordeaux

UNESCO Chair on Education, training and research for sustainable development

Twenty years ago, when internet became widely available, started what is called now “the digital revolution”. At that moment, nobody was really aware of what would happen in the future – our present reality is the result of the resulting changes in all sectors of our society. During the last five years, there has been a significant change in societal adoption of In- ternet technologies with extensive use both in developed and developing countries.

This increasing digital connectivity in all aspects of our society, particularly the education and training sec- tors, extends and strengthens earlier approaches devel- oped using ICTs and digital work spaces in two different but complementary ways: the use of information availa- ble on educational websites, like virtual or open courses or universities, and access to web-based information col- lected via search engines. This open education, based on open educational resources and Creative Common Attri- bution License, brings new opportunities for innovation in education in general, more particularly in Higher Edu- cation (HE) as it allows Higher Education Institutions (HEI) to develop new online learning models and innova- tive practices in teaching and learning. This means that educational institutions, and HEI particularly, may capi- talise on knowledge and know how to afford better an- swers to society’s expectations by meeting the challenges facing many educational systems, including a shortage of teachers, the inadequacy or lack of facilities, or even inadequate teacher training.

A new educational discourse emerged with Massive Open Online Courses (MOOCs). MOOCs are a relatively recent online learning “tool”, having developed from sev- eraI initiatives at the end of the last decade. MOOCs are now considerably increasing in HE as they give an oppor- tunity for massification of courses in a life-long learning perspective, regardless needs, levels and status and over- coming limitations like the lack of teachers and infra-structures as well as financial disincentives resulting from administrative constraints.

One very positive aspect of flexible learning is that it is possible to learn what you like, when you like, and MOOCs are structured to favour this kind of learning. This course is convenient for sharing knowledge and providing education and training without spatial or time constraint as well for students as for any other type of learner. MOOCs are attracting high numbers of course partici- pants, but they are not leading to high numbers of course completions even if there is a high rate of university stu- dents that use MOOCs to complement their courses pro- grammes or to enrich their general knowledge on specif- ic or general themes. This would suggest that even if MOOCs could become a positive source of curricula and training programmes for university students they do not represent actually a real alternative to HE curriculums.

Nevertheless, if we refer to the situation in USA (Allen & Seaman, 2015), a small segment of HEI are now experi- menting with MOOCs and most institutions remain un- decided with academic leaders remaining uncomfortable that MOOCs represent a sustainable method for offering online courses; even if they believe MOOCs provide an important means for institutions to learn about online pedagogy they have concerns that credentials for MOOC completion will cause confusion about higher education degrees.
MOOCs can be seen as an extension of existing online learning approaches, in terms of open access to courses and this can be seen as positive but, on the other hand, some are thinking there is a risk of disconnecting teaching. It is obvious that all forms of digital education benefit to HE institutions, including MOOCs, but there is clearly a need for a better and deeper reflection about how MOOCs can be associated to face-to-face/hybrid teaching and how they can be a catalyst for positive evolution of our actual way of teaching.

References

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• Pappano, L. (2012)- The year of the MOOC, November 2012, NY times

What is the Project Seeking to Achieve?

UE4SD is a three year higher education project funded by the European Commission under the Lifelong Learning Programme – Erasmus Academic Networks. The project is working across Europe to locate and capture recent innovation that supports the development of Education for Sustainable Development (ESD) competences of university educators. The aim is to collect and draw on best practices, new initiatives and usable tools for professional development in ESD for university educators.

The project is led by the University of Gloucestershire (United Kingdom) and involves 53 partners across 53 countries in Europe. The partnership has been divided into four regional hubs, to ensure that the full range of regional scenarios and contexts are visible throughout the project. The North region is coordinated by the University of Gloucestershire (UK), the West region by Leuphana University of Lüneburg (Germany), the South region by the Autonomous University of Madrid (Spain), and the East region by Charles University (Czech Republic). MOOC ECSDE is an active partner of this project and has contributed to the dialogues as well as key deliverables.

The First Year of the Project

In its first year, the project has involved each country in the completion of a mapping template which captures the status of ESD within higher education at the national level. These templates also identify and describe existing ESD professional development opportunities for university educators. These mapping profiles captured the following:

- Status: background information on the status of ESD within higher education at the national level, as well as the key policies, resources and initiatives that support its development.
- Initiatives: an overview of recent initiatives at the institutional and the professional level, to support the professional development of university educators in ESD.
- Potential Case Studies: two or three key initiatives that directly support the professional development of university educators in ESD. Details have been generated about the type of initiative, its purpose, focus and pedagogical approach, the target groups and motivations to participate.
- Reflection: short reflective commentaries on strategies for the future, aimed at improving professional development opportunities for university educators.

The outcomes of this review were presented at the annual UE4SD Conference in Prague in October 2014 and can be accessed at www.ue4sd.eu. The overarching report from across the four regions will inform the second and third phases of the project, which will seek to develop a leading practice publication on professional development in ESD for university educators and an online platform of resources to support this important area. These resources will then inform the development of a Higher Education Academy for Sustainable Development in the final year of the project.

UE4SD also seeks to establish a leading expert group in Education for Sustainable Development competences in higher education in Europe as a legacy of the project. It will create a platform to combine and share the expertise of network partners so that they can continue informing policy and practice at national and regional levels beyond the life of the project. Its activities are closely associated with COPERNICUS Alliance – the European Network of Higher Education for Sustainable Development.

Project Summary

Funded by: IC, LLP Erasmus, Academic Networks
Budget: 650,000 euro
Duration: October 2013 - September 2016
Size of Network: 53 higher education institutions in 33 countries
Co-ordinator: University of Gloucestershire (UK)
Collaborative links: COPERNICUS Alliance
Webpage: www.ue4sd.eu

Why Education for Sustainable Development in Higher Education?

Sustainable development has been identified as one of the greatest challenges that our societies are facing in the 21st century. Unsustainable practices are increasing social, economic and environmental inequalities; worsening the impact of environmental degradation; and limiting quality of life. It has been recognised that our education systems are critical to achieve sustainable development goals as they equip learners with the knowledge, skills and attitudes needed to re-orient social development goals. Unsustainable practices, new initiatives and usable tools for professional development are visible in ESD for university educators. The project is working across Europe to locate and capture recent innovation that supports the development of ESD competences of university educators. The aim is to collect and draw on best practices, new initiatives and usable tools for professional development.

MOOCs have attracted a great deal of attention from Higher education institutions and, in this regard, they can help democratizing higher education by providing accessible, flexible and affordable university courses for free or at a low cost for any learner. HE Institutions need support for educators, if universities are to contribute effectively to a more sustainable future.

UE4SD – UNIVERSITY EDUCATORS FOR SUSTAINABLE DEVELOPMENT

By Prof. Daniella Tilbury, and Dr Alex Ryan, University of Gloucestershire

MOOCs have attracted a great deal of attention from Higher education institutions and, in this regard, they can help democratizing higher education by providing accessible, flexible and affordable university courses for free or at a low cost for any learner. HE Institutions need support for educators, if universities are to contribute effectively to a more sustainable future.

Key project commitments

1: Reviewing the ‘state of the art’ and identifying leading practice (2013-14)

Conducting a grounded study to map and analyse existing opportunities at a country and regional level for university educators to develop Education for Sustainable Development competences. Four sub-regional and one state of the art report across all partner countries will be generated.

2: Developing new resources and guidance tools (2014-15)

The leading practice identified from the grounded study across European nations will form the basis of a publication that showcases best practices and diverse approaches to ESD professional development. An online platform of resources will also be developed to support university educators and professional development teams in this area.

3: Developing an Academy for ESD in HE (2015-16)

The resources developed in phase two will inform the creation of a training academy on Education for Sustainable Development in Higher Education, which will be focused on supporting the re-orientation of higher education towards sustainability. This final phase will provide opportunities for reflection and capacity-building for university academic leaders, educators and key staff responsible for professional development.
The Mediterranean Strategy on ESD (MISED) has been formally and unanimously endorsed by the 43 Ministers of Environment of the Union for the Mediterranean (UM) including the EU and the Mediterranean non-EU countries, on 13 May 2014. In fact the Mediterranean Strategy in ESD was included in their declaration which also announces the continuation / second phase of the Horizon 2020 program to de-pollute the Mediterranean from 2015 to 2020; and the establishment of the UfM Working Group on Environment and Climate Change that will follow up on the adopted Ministerial Declaration and assess the progress made.

The process of developing the Mediterranean Strategy on ESD, which is largely based on the UNECE UfM Secretariat, facilitated by MEdIES, is mandated to develop, as a follow up, an Action Plan for the Southern countries -the European and Mediterranean Countries have been following already the UNECE strategy.

Hopefully, the Action Plan and the implementation of the Mediterranean Strategy in the next years will be a clear demonstration of cooperation and solidarity in a North - South and East - West interface.


THE “GOVERNANCE & FINANCING FOR THE MEDITERRANEAN WATER SECTOR” PROJECT: SUCCESSFUL COMPLETION OF THE NATIONAL DIALOGUES IN JORDAN AND TUNISIA

by Dr. Anthi Brouma and Ms. Varvara Vasilaki, GWP-Med

The National Water Policy Dialogues in Jordan and Tunisia have been recently concluded within the framework of the Union for the Mediterranean (UM) labelled project “Governance & Financing for the Mediterranean Water Sector”; they were marked by the launch of two National Reports on “Water Governance: Overcoming the Challenges to Private Sector Participation” during wide stakeholder workshops held on 4 June in Amman and on 9 June 2014 in Tunis.

During 2013-2014, the two Dialogues engaged a wide range of key stakeholders in the two countries, including authorities, utilities, civil society, donors, universities, private sector and experts, in a structured and informed interaction involving a series of workshops and bilateral meetings. The National Reports represent the tangible outcome of this process and contain diagnostic analyses of key governance bottlenecks to private sector participation (PSP) in water supply and sanitation services, as well as concrete policy recommendations to overcome them and country-specific Action Plans for their implementation.

During the launch of the reports, participants welcomed the recommendations and considered the findings as reflecting a broad consensus on the governance challenges faced in the two countries’ water sectors, the steps needed to deepen the current reform process, and the coordinating tools for further water initiatives.

The Policy Dialogues were conducted jointly by GWP-Med and the OECD in the framework of the UfM labelled project with the support the Swedish International Development Cooperation Agency (Sida), the FEMIP Trust Fund of the European Investment Bank (EIB), the GEF UNEP MAP MedPartnership and the Mediterranean Component of the EU Water Initiative (MED EUIW). In Jordan, the Dialogue was conducted in close cooperation with the Ministry of Water and Irrigation (MWI) whereas in Tunisia in close cooperation with the Ministry of Agriculture (Bureau de la Planification et des Equilibres Hydrauliques).

The findings of the two National Dialogues will be disseminated during the 1st Regional Conference of the project to be held on 28-30 October 2014, in Athens, Greece, in close collaboration with the EU funded “Sustainable Water Integrated Management - Support Mechanism” (SWIM-SM) project. The Conference aims to reinforce the regional dialogue set off during the launching of the UfM labelled project in May 2013, as well as the sharing of experiences by bringing together targeted stakeholders from the Mediterranean region, including public authorities, civil society and the private sector. The Conference will build upon the outcomes of the Dialogues conducted in Jordan and Tunisia and will discuss the way forward. Moreover, the Conference will also review synergies with other regional actors aimed to enhance sustainable financing of water infrastructure, including through PSP.

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Ms. Varvara Vasilaki : varvara@gwpmed.org

SUMMER SCHOOL ON ESD IN BIOSPHERE RESERVES AND OTHER PROTECTED AREAS

The course was based, to a large extend, on the joint publication of UNESCO, MIO-ECSDE and UfM entitled “Education for Sustainable Development in Biosphere Reserves and other Designated Areas: A Resource Book for Educators in South-Eastern Europe and the Mediterranean” developed in 2012 as a training material for ESD experts and trainers.

The 8 partner Universities are all members to the Mediterranean University Network (MEDUnNET) were: University of Athens (Greece); Frederik University (Cyprus); University of Zagreb (Croatia); Technical University of Bordeaux (France); University of Padova (Italy); University of Primorska (Slovenia); Technical University of Catalonia (Spain); Akdeniz University (Turkey).

The Summer School was held at Amfissa’s Environmental Education Centre (KFE). It was jointly organised by the UNESCO Chair of the University of Athens and ME\DIES Secretariat with the support, of EU/ERASMUS as well as the UNESCO Regional Bureau for Science and Culture in Europe. The workshop was under the auspices of the Hellenic National Commission for UNESCO and its National Committee of MAB/UNESCO.

It must be underlined that this summer school was not a standalone initiative but yet another step in a long lasting fruitful collaboration of a team of committed partners that work for the promotion of ESD in designated areas. It was a direct follow-up of EuroMAB held in Canada (2013), an e-course for Management of Protected Areas (2013) and a Grundtvig Workshop on creating Bridges on ESD (2011).

Read more: www.mio-ecsde.org/erasmus-ip-2014/index.html

SUMMER SCHOOL ON ESD IN BIOSPHERE RESERVES AND OTHER PROTECTED AREAS

Amfissa-Delphi, Greece, 6-19 July 2014
By Vassilis Psallidas, MedIES ESD Consultant

The 2 week long Summer School, directed by Prof. M. Scoullos (University of Athens, UNESCO Chair) provided a high quality intensive training on how ESD can be practically applied in various types of designated areas, such as MAB Biosphere Reserves, National Parks, Natura 2000 sites, etc. to thirty nine (39) trainees, a creative mix of post-graduate students from Croatia, France, Greece, Italy, Slovenia and Turkey, coupled with junior education professionals working in Biosphere Reserves, coming from Bulgaria, France, Greece, Montenegro, Russian Federation, Spain and the Former Yugoslav Republic of Macedonia.

EMBASSY OF GHANA

1918

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SUSTAINABLE MEDITERRANEAN • Issue no 70 – numéro 70
The Conference has coincided with the end of the UN Decade on ESD and the newly formed Global Action Programme (GAP) on ESD. The Copernicus Conference reviewed the trends and changes in Higher Education (HE) to-wards sustainability over the last ten years, with an emphasis on whole-institution approaches, curriculum change, uni-versity educators, ESD competences and quality enhancement. Prof Michael Scoullos, University of Athens and Vicky Maloti-di, MEdIES Secretariat presented a paper entitled: “The Medi-terranean Universities Response to the UN Decade on ESD” highlighting: (i) the universities input in the drafting process of the Mediterranean Strategy on ESD (ii) The capacity building activities of the Network of Mediterranean Universities on SD with emphasis on ESD (MedUnNET) for university staff (iii) The establishment of the UNESCO Chair and Network on Sustain-able Development Management and Education in the Medi-terranean in the University of Athens to facilitate coordination of ESD activities in the region. Furthermore, Prof. Scoullos made another presentation entitled “Challenges Higher Education faces in addressing ESD” stressing out topics such as: the ESD approaches in HE, the re-orientation of HE moving towards transdisciplinarity; the role of HE in construction of a global vision; the required ESD approaches and the university educa-tors competences to address the contemporary challenges. Read more on the conference: www.uaesd.eu/project-events/copernicus-conference

The Non Conventional Water Resources (NCWR) Programme is implemented by the CWPl-Med, along with na-tional and local authorities in beneficiary islands. Funded by the Coca-Cola Foundation, it is already active in insular communities in three countries facing water scarcity issues: Greece, Malta and Cyprus. The Programme aims to mobilise the NCWR utilization and leverage their enormous potential, as a sustainable, cost-effective solution to enhance water availability in water stressed countries. It pursues its objective by show-casing NCWR applications in public buildings, educating students on sustainable water use, training teachers on education for sustainable development based on tailor-made material, en-abling the local technicians’ skills to install/maintain NCWR systems, building the local authorities’ capacity and raising awareness among general public on applying NCWR solutions and saving water at domestic & community level, as well as promoting dialogue and multi-stakeholder part-nerships on NCWR Management around the Mediterranean. The NCWR Programme was initiated in 2008 in Greece, in partnership with the Coca-Cola Hellenic Bottling Company & Alter Aqua. Students were educated, while 255 teachers were trained and provided with the Alter Aqua Educational Material, for which the Programme received a STENCIL Award for the most in-novative science related educational resources in Europe. In Cyprus the Programme was initiated in 2013, in partnership with Lanitis Bros & Coca-Cola Company. A public schools and 3 centres of environmental education have benefited by the installation or reinstatement of greywater reuse and rainwa-ter harvesting systems. In Greece 173 teachers in Limassol and Nicosia were trained on the educational material on NCWR systems, in 28 Greek Islands. It has reached out to more than 7500 students and almost 1000 teachers in the benefi-ciary islands and Athens. In Malta it was launched in 2011, in partnership with the Ministry for Energy & Health, the Min-istry for Gozo, the Eco-Gozo Project, the General Soft Drinks Ltd. & the Coca-Cola Company. 4 Rainwater Harvesting Sys-tems were installed and 6 further reinstated in public school buildings, a Greywater Reuse System was installed at the Gozo Football Stadium and a Stormwater Management ap-plication was built at the Ramla Valley in Gozo Island. 3,200 Students were educated, while 257 teachers were trained and provided with the Alter Aqua Educational Material, for which the Programme received a STENCIL Award for the most in-novative science related educational resources in Europe. In Cyprus the Programme was initiated in 2013, in partnership with Lanitis Bros & Coca-Cola Company. A public schools and 3 centres of environmental education have benefited by the installation or reinstatement of greywater reuse and rainwa-ter harvesting systems. In Greece 173 teachers in Limassol and Nicosia were trained on the educational material on NCWR systems, building the local authorities’ capacity and raising awareness among general public on applying NCWR solutions and saving water at domestic & community level, as well as promoting dialogue and multi-stakeholder part-nerships on NCWR Management around the Mediterranean. The NCWR Programme was initiated in 2008 in Greece, in partnership with the Coca-Cola Hellenic Bottling Company & Alter Aqua.

Marine Litter: A problem of global concern...

In recent years the media often deluges viewers with alarming pictures of beaches with mountains of garbage or sea wildlife that is trapped or choked or dies because of floating litter, litter is found in all seas and coasts around the world... lying on shores... floating at any depth... even in the most isolated, pristine environments such as the Arctic, Antarctic and in the middle of the ocean.

Does media exaggerate? Exactly how detached is the problem from our conventional lives?

Unfortunately, in most cases one doesn’t need to move far from one’s place to locate garbage on coasts, river banks, roads’ sidewalks etc. Such a sight easily comes to mind to most of us. Actually, surveys show that globally wastes in the seas are up to 70% plastic. If one considers how plastic has taken over the planet during the last century, and that the first generation of plastics are still with us today... one can start to grasp the huge dimensions of the problem...

What is the MARLISCO Exhibition about?

The 1 year long European project MARLISCO aims to raise public awareness, facilitate dialogue and promote co-re-sponsibility for the sustainable management of marine litter. A series of activities including a European wide survey, a video contest, a collection of best practices, na-tionally broadcasted discussions, the production of a multi-lingual educational material (see page ++), and many other tailor made activities are carried out by a consorti-um of 20 partners in the 13 project countries.

Within the MARLISCO project, MIO-ECSD/E has pre-pared an exhibition to sensitise students and the general public on the issue. It is composed of a set of thought pro-voking panels, which explore the sources, impacts and possible ways to tackling the global challenge of marine litter. The target is for viewers to re-consider their con-sumption and disposal behaviours and to engage in a re-solidable lifestyle with an ultimate goal of cultivating a zero-waste culture.

MARLISCO Exhibition in Greece

The MARLISCO Exhibition has been translated and dis-played in the 13 MARLISCO partner countries, composing in itself a robust European wide campaign against ma-rine litter. In Greece, the MARLISCO Exhibition has been, so far, displayed on the occasion of:

- Festivals such as the 4th Athens Science Festival (10/04 - 05/04, 2014), attended by more than 5,000 visitors.
- Conferences and High Level Meetings, such as the Mediterra-nean Marine Litter Workshop, Athens 12-16/04, 2014.
- The Greek version of the MARLISCO exhibition has been produced with the support of the Coca-Cola System in Greece (Coca-Cola Hellas & Coca-Cola Trik Epili).
What are their needed skills in order to impose their future prospects (work, social, financial, etc)?

What actions do young people consider important in order for them to successfully address present and future challenges?

These questions are raised in the Mediterranean-wide survey aiming to explore the views, ideas and visions of youth around the sustainability challenges in countries of the region. The survey will run from November 2014 – June 2015 through online questionnaires disseminated in all Mediterranean countries.

The survey is conducted by MEdIES / MIO-ECSDE and is supported by the General Secretariat of Youth of the Hellenic Ministry of Education and Religious Affairs. Read more: www.medies.net

PUBLICATIONS

EDUCATION FOR SUSTAINABLE DEVELOPMENT (ESD) IN BIOSPHERE RESERVES AND OTHER DESIGNATED AREAS: A RESOURCE BOOK FOR EDUCATORS IN SOUTH-EASTERN EUROPE AND THE MEDITERRANEAN

This 256-page long resource book is a joint UNESCO & MIO-ECSDE publication of 2013 which seeks to make a meaningful and substantial link between the educational process that is taking place in Biosphere Reserves (BRs) and other protected or designated areas, and their “protection” as such, using as a vehicle “Education for Sustainable Development” (ESD).

The training material is addressed to trainers, officers and students to take action to sensitize and enable European teachers and students to take action to tackle the problem of litter in our seas and coasts.

As becomes evident by its title, the educational material “Know Feel Act! To Stop Marine Litter” whose English version has been released in November 2014 has been prepared to inform, sensitize and enable European teachers and students to take action to tackle the problem of litter in our seas and coasts.

It is a product of the MARLISCO European project and within the project duration (2012-2015) it is expected to be translated and applied in the 15 partner countries. It contains 17 learning activities examining the characteristics, sources, effects and possible ways to tackle the problem, addressing it from an environmental, societal, cultural and economic point of view. It has been designed to primarily serve youth aged 10-15 yrs, but can be used also by educators outside the formal schooling system.

In training European teachers about how to use this material has been the aim of a 10 day (16 hrs) long e-course that was held by MEdIES Secretariat in June 2014 and was followed by 69 teachers from 13 countries. The e-course will be repeated in December 2014 and will host 100 trainees.

MARLISCO is an FP7 project that is funded by the European Commission.

Access the material: www.medies.net/staticpages.asp?id=193

EDUCATIONAL MATERIAL ON NON CONVENTIONAL WATER RESOURCES IN CYPRUS

The educational material constitutes the expansion of the Non Conventional Water Resources (NCWR) Programme from the Greek and the Maltese islands, this time in Cyprus! The material has been authored by MEdIES Secretariat together with the Pedagogical Institute of Cyprus, so as to be tailor made to the Cypriot realities and needs. It is aligned with the official Cypriot ESD curriculum that is applied at the primary level, particularly its learning objectives relating to the theme of “water”.

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Read more on MARLISCO and access the educational material: www.marlisco.eu

1. Alter Aqua: Educational Material on Non Conventional Water Resources in Malta

This is another joint GWP-Med & MIO-ECSDE publication that is produced within the Non Conventional Water Resources (NCWR) Programme (see page 20). Further to the launch of the NCWR Programme in Malta in 2011, a committed team from Greece (MEdIES Secretariat) and Malta (Nature Trust Malta), have closely collaborated in order to prepare a material that on one hand, embodies the Greek know-how and, on the other, it is culturally relevant and appropriate for the Maltese educational community.

The result is the Alter Aqua Educational Material, produced in 2012 and reproduced in 2014. Since 2011 the material has been extensively applied in schools of Gozo and Malta (by NTM), and has been the object of capacity building workshops for teachers. The educational material includes a publication distributed to teacher, a poster to be used by students and three sets of hands-on material to be used in school interventions (one for Gozo and two for Malta). In 2013 the Alter Aqua material has received the STENCIL Award that rewards the most innovative science related educational resources in Europe.

Access the material: www.medies.net/staticpages.asp?id=193

2. Water Harvesting in Greek Language

This is the first edition of Alter Aqua – Educational Material on Rain Water Harvesting in Greek Language reached its 3rd Edition.

This is a joint GWP-Med & MIO-ECSDE publication that is produced within the wider Non Conventional Water Resources (NCWR) Programme (see page 20) and has reached its 3rd edition in 2014.

The educational material aims to raise the awareness and sensitize students of late primary and secondary level (10-14 years) towards the sustainable management of water. More specifically the material aims to cultivate the students’ necessary skills to address the century-old, partly abandoned practices of rainwater collection and use, as well as the modern techniques than can be applied today in homes, hotels, etc. in order to collect, economise, or recycle water (through grey water reuse devises).

Overall the material aims for students to acquire a positive attitude towards wise water use in their daily lives.

The first edition of 2009 covers particularly the cases of the water scarce Cyclades islands, the second edition (of 2011) targets all island and coastal territories of Greece that have a tradition in rainwater harvesting, while the recent third edition (2014) extends also to issues of water management in urban environments.

Access the material: www.medies.net/staticpages.asp?id=193

ANNOUNCEMENT: MEDITERRANEAN-WIDE SURVEY ON THE VIEWS, PERCEPTIONS AND VISIONS OF YOUTH ON WHAT CONSTITUTES THEIR SUSTAINABLE FUTURE

by MEdIES/MIO-ECSDE

In the Mediterranean region rapid developments more and more show that the development models followed during the past decades are today inadequate to ensure conservation (much less improvement) of environmental conditions or natural resources including water, fossils, biodiversity etc. The environmental, economic and social dimensions which constitute necessary prerequisites for Sustainable Development, are still being applied in a fragmented manner, in spite of repeated incitements and recommendations, over the past 20 years.

What is the position of the youth of the Mediterranean on the sustainability issue?

What is their understanding and what is their vision of sustainable development?
This is the title of the book jointly published by the Cornell University, the Atkinson Center for a Sustainable Future and the Global Water Partnership-Mediterranean in September 2014; a mosaic itself of stories, insights, questions and answers about water, people, natural resources and water-related socio-political balances in the Mediterranean. By travelling around the region, the book looks into a variety of inter-related themes with challenging case studies from across the region. The challenges are addressed, on the one hand, in the framework of a “fine mosaic of solid pieces of immense durability” - of peoples, historical backgrounds, memories, civilizations, religions, ideologies, philosophies; on the other hand, within a range of pressures: biodiversity losses, increasing pollution, fast-growing population, unsustainable consumption, fast-developing urbanization, climate change ante portas, increasing desertification, droughts and flood phenomena, deep socio-political and economic crisis, armed conflict and migration. In this context, the importance of today’s water security challenge should not be underestimated.

The book proposes a path towards ensuring sustained economic growth, human security and political stability in the region: that of integrated water resources management (including integrated approach to coastal and river basin management), as well as its nexus approach with energy and food. This needs to be prioritized by governments, local authorities, civil society, businesses and academics. The tools needed to turn policy into action and shape a better future for the whole region are there: good governance; participatory policy making, coordinated implementation and monitoring; accessible information; enforced capacities; affordable technologies and innovation; socially sensitive investments; tailor-made, pro-poor fiscal instruments.

The book was edited by Professors Gail (Electra) Holst-Warhaft and Tammo Steenhuis of Cornell University and Dr. Francesca de Châtel. GWP-Med Chairman, Prof. Michael Scoullos, addresses readers in the book’s foreword. Furthermore, GWP-Med, in collaboration with UNECE, contributed the case study on the dynamically evolving Drin River Basin collaboration.

The book is available for download at www.gwpmed.org.

MIO-ECSDE Profile

The Mediterranean Information Office for Environment, Culture and Sustainable Development, is a Federation of Mediterranean Non-Governmental Organizations (NGOs) for the Environment and Development. MIO-ECSDE acts as a technical and political platform for the intervention of NGOs in the Mediterranean scene. In cooperation with Governments, International Organizations and other socio-economic partners, MIO-ECSDE plays an active role for the protection of the environment and the sustainable development of the Mediterranean Region.

Background

MIO-ECSDE became a federation of Mediterranean NGOs in March 1996. Its roots go back to the early 80s, when the expanding Mediterranean membership of the European Community encouraged the European Environmental Bureau (EEB) to form its Mediterranean Committee supported by Elliniki Etairia (The Hellenic Society for the Protection of the Environment and the Cultural Heritage). The Mediterranean Information Office (MIO) was established in 1990 as a network of NGOs, under a joint project of EEB and Elliniki Etairia and in close collaboration with the Arab Network of Environment and Development (RAED). The continuous expansion of MIO-ECSDE’s Mediterranean NGO network and the increasing request for their representation in Mediterranean and International Fora, led to the transformation of MIO-ECSDE to its current NGO Federation status. Today it has a membership of 126 NGOs from 26 Mediterranean countries.

Our Mission

Our mission is to protect the Natural Environment (flora and fauna, biotopes, forests, coasts, natural resources, climate) and the Cultural Heritage (archaeological monuments, and traditional settlements, cities, etc.) of the Mediterranean Region. The ultimate goal of MIO-ECSDE is to promote Sustainable Development in a peaceful Mediterranean.

Major tools and methods

Major tools and methods used by MIO-ECSDE in order to achieve its objectives are the following:

- Promotion of the understanding and collaboration among the people of the Mediterranean, especially through their NGOs, between NGOs and Governments, Parliaments, Local Authorities, International Organizations and socio-economic actors of the Mediterranean Region.
- Assistance for the establishment, strengthening, cooperation and co-ordination of Mediterranean NGOs and facilitation of their efforts by ensuring the flow of information among relevant bodies.
- Promotion of education, research and study on Mediterranean issues, by facilitating collaboration between NGOs and Scientific and Academic Institutions.
- Raising of public awareness on crucial Mediterranean environmental issues, through campaigns, publications, exhibitions, public presentations, etc.

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