

A WEEK LONG EVENT OF MILLENNIUM DEVELOPMENT GOALS

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ABSTRACT

One of the main goals of the Millennium Development Goals (MDG) is to promote engineering education, capacity building and applications for poverty eradication and sustainable development. Noting the recommendations of the World Engineers' Conventions in Hanover, 2000 ("Humanity, Nature and Technology"), and Shanghai, 2004 ("Engineers Shape the Sustainable World"), regarding the importance of engineering in social and economic development and the need for capacity building, and noting that the third World Engineers' Convention will be held on December in Brasilia in 2008 ("Engineering: Innovation with Social Responsibility").

ISEP and other institutions will organize a week long event to publicize MDG to the students. In this presentation we will go to present the program and the internships offered to students.

KEYWORDS

Millennium Development Goals, UNESCO, Engineering Education

INTRODUCTION

CDIO, as a framework to produce the next generation of engineers, provides students with an education stressing, beside others, operating real-world systems.

Engineering education must take into account the surrounding environment, namely the goals set by international organizations and governments as they will represent additional opportunities for students at the labour market.

This poster will also link the MDG event at ISEP with CDIO standards 1, 2, 5 and 8.

WHAT ARE THE MILLENNIUM DEVELOPMENT GOALS?

The Millennium Development Goals (MDGs) are eight goals to be achieved by 2015 that respond to the world's main development challenges. The MDGs are drawn from the actions and targets contained in the Millennium Declaration that was adopted by 189 nations and signed by 147 heads of state and governments during the UN Millennium Summit in September 2000.

The eight MDGs break down into 21 quantifiable targets include:

- **Goal 1: Eradicate extreme poverty and hunger**
 - Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.
 - Achieve full and productive employment and decent work for all, including women and young people.
 - Halve, between 1990 and 2015, the proportion of people who suffer from hunger.
- **Goal 2: Achieve universal primary education**
 - Ensure that, by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling.
- **Goal 3: Promote gender equality and empower women**
 - Eliminate gender disparity in primary and secondary education preferably by 2005, and at all levels by 2015.
- **Goal 4: Reduce child mortality**
 - Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate.
- **Goal 5: Improve maternal health**
 - Reduce by three quarters, between 1990 and 2015, the maternal mortality ratio.
 - Achieve, by 2015, universal access to reproductive health.
- **Goal 6: Combat HIV/AIDS, malaria and other diseases**
 - Have halted by 2015 and begun to reverse the spread of HIV/AIDS.
 - Achieve, by 2010, universal access to treatment for HIV/AIDS for all those who need it.
 - Have halted by 2015 and begun to reverse the incidence of malaria and other major diseases.
- **Goal 7: Ensure environmental sustainability**
 - Integrate the principles of sustainable development into country policies and programmes; reverse loss of environmental resources.
 - Reduce biodiversity loss, achieving, by 2010, a significant reduction in the rate of loss.
 - Halve, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation (for more information see the entry on water supply).
 - By 2020, to have achieved a significant improvement in the lives of at least 100 million slum-dwellers.

- **Goal 8: Develop a Global Partnership for Development**

- Develop further an open trading and financial system that is rule-based, predictable and non-discriminatory. Includes a commitment to good governance, development and poverty reduction-nationally and internationally.
- Address the special needs of the least developed countries. This includes tariff and quota free access for their exports; enhanced programme of debt relief for heavily indebted poor countries; and cancellation of official bilateral debt; and more generous official development assistance for countries committed to poverty reduction.
- Address the special needs of landlocked and small island developing States.
- Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.
- In cooperation with pharmaceutical companies, provide access to affordable essential drugs in developing countries.
- In cooperation with the private sector, make available the benefits of new technologies, especially information and communications.



Figure1. The eight MDGs Goals

WEEK PROGRAM

The week long event of Millennium Development Goals will be held on October not only at ISEP but at others institutions and in Porto city. There are several universities, Non Governmental Organisations for Development (NGOD) and other organizations involved, such as: Universidade Católica do Porto; Engenho & Obra (NGOD); Agência ODM; Escola Superior de Educação do Porto, Campanha do Milénio das Nações Unidas, Centro Regional de Excelência em Educação para o Desenvolvimento Sustentável da Área Metropolitana do Porto.

During this week the students will show their work related with the MDGs Goals. There will be a national photograph contest and an interuniversity documentary contest about MDGs Goals.

We are also going to organize a marathon at 17th October, at the International Day of Poverty Eradication.

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Delminda Lopes is a Professor at the Chemical Engineering Department of ISEP and is the President of the Pedagogical Council.

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Alfredo Soares Ferreira is President of "ENGENHO & OBRA", Association to Development and Cooperation, since 2007. Telecommunications Engineering degree, post-graduate Management Strategy and Business Administration Education, played roles in the public and private as Teacher, Trainer, Technical Education Committee, Director General business technology. He is currently Managing Consultant, Trainer of Trainers, Coordinator of International Projects, Expert-Evaluator PROALV National Agency (Lisboa) and European Commission (Brussels).

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