

Jan W. DOBROWOLSKI

AGH-University of Science and Technology Open University, Team of Environmental Biotechnology and Ecology, Kat.GFTS, Wydz. GGiS, 30-059 Krakow, Mickiewicza 30,

POLAND, E-mail: dobrowol@agh.edu.pl

**LIFE-LONG EDUCATION FOR BETTER QUALITY OF LIFE, SUSTAINABLE SOCIETY
AND GREEN ECONOMY**

European tradition of Human Rights has to be focused on the optimization of progress in different fields of science and technology for efficient prevention against common environmental health hazard (focused on primary prevention of incurable diseases of civilization e.g. congenital malformations, mutations and cancer) as well as on sustainable management of the natural resources by dissemination of low energy and waste-free biotechnology based on renewable energy sources (e.g. bioenergy from wastes). We have to follow good **experiences of many generations contributing to the concept of sustainable development introduced by Prof. W. Goetel from AGH-UST and adopted by GA of IUCN already in 1956.**

To maximize the efficiency of common action of experts and the whole society focused on better quality of Life. **It is necessary to provide inter-generation integration based on life-long learning.**

I could offer methodological experiences of 45 years voluntary training of the university students scientific clubs (NGOs) focused on problem-solving based on interdisciplinary case studies and education of local society and visitors about skills and practical joint action for protection of top quality nature, culture heritage (e.g. in some Polish, Italian, and Spanish parks, health resorts and historical cities e.g. Krakow and Firenze in linkage with qualified tourism).

We have also useful experiences connected with long-term open for all Seminars, 24 years activity of AGH-UST Open University, background materials from several Intl. Schools, Workshops and 14 Intl. Conferences on Sustainable Development and Eco-innovation.

Our and colleagues from different countries good practice could be stored in GRID Network and disseminated via Internet and International Postgraduate Courses for talented leaders and contribution to the academic mission of education for improving human wellbeing and creative contribution to low investment creating green jobs e.g. by tele-work, self-employment in innovative enterprises promoting sustainable biotechnology focused on biomimetic and ecological engineering) in feedback of forecasting of labour market trends on regional and international scale.

Let us support the foundation of the Interuniversity Centers of Sustainable Development and Green Economy (including environmentally-friendly biotechnology and ecological engineering) **for training staff for green jobs** (as creative contribution to the international cooperation initiated and coordinated by the World Academy of Arts and Science) , **integrated with Life-Long Education of knowledge-based society** (including both voluntary teams of young persons as well as mid and third age generations).

Creation of the International Network of Experts as Leaders of Interdisciplinary Cooperation focused on Green Economy and Innovative Environmentally-friendly Eco-technologies [including Data-Base of Good Practice from different countries] would be very useful for stimulation integrated training and education in this priority area recommended by UNs and UNESCO.

Development of Interned-based distance education of staff of experts and stakeholders seems to be a proper tool for wide-scale international cooperation . Postgraduate Courses may be especially helpful for sustainable management of the natural resources and adaptation green economy to climate change in developing countries [including protection of biodiversity and health of local population].

Let us contribute to more efficient protection of Life both at personal level as well as on the scale of the Biosphere **by the adaptation human activity to mechanism of protection homeostasis** based on negative feed-back system.

Let us recommend also **the development of international cooperation on Games for Better Quality of Life for All** (with participation of representatives of all age and professional groups) related to cooperating regions (facing with

similar problems e.g. historical cities, area for cooperation, rural or industrial regions, etc.) as well as common contribution to adaptation to climate change or minimization of negative effects of motorization, etc.).

Recommendation for cooperation on Education for the 21st Century [including new pilot projects];

Replacement of task oriented training with **problem-solving training** (focused on system approach to the protection of homeostasis of all living systems from the human body to the Biosphere, based on interdisciplinary case studies with practical output).

Integration of training with the prediction of needs and trends in labor market; focused on promotion Green Jobs (e.g. described in Tomaszewski and Dobrowolski background material-enclosed)...

Integration of professional training with action-oriented Life-long education of all age groups (including inter-generation linkage)**for Common Action of Experts and Knowledge-based Society for Better Quality of Life for All** by better application of progress in different (complementary)fields of science and technology. Supplementation of up-to-day knowledge with ecological culture, sense of common responsibility and stimulation of individual talents and creativity as well as needed skills and efficient cooperation in multidisciplinary teams of scientists and practitioners.

Better understanding among both producers, consumers and decision-makers that sustainable management of the natural resources (including renewable and clean sources of energy) **is the best way to permanent development**, sustainable society and economy.

Improvement of socio-technological tools for **better motivation of partners toward common action on local scale integrated with** regional, international and **global cooperation** (reflecting integration of the natural environment and technological an economical network on the global scale).

Replacement of popular socio-pathogenic computer games with **attractive for young generation Games promoting interactive education, stimulating the sense of common responsibility for better future based on Green Economy and team action useful for dissemination of positive motivation, skills and abilities for sustainable management of the natural resources and Human environment** in buildings, habitats and local scale as contribution to the Game of better future of Mankind and making human life more reasonable and focused for more effective protection of LIFE including bio-ethics aspects and **Common responsibility for the Better Future**.

