



EHWC'2006

Environmental and Health World Congress

Natural Resources for the Health of Future Generations

July 16 - 19, 2006 – Santos, Brazil

ORGANIZATION



Council of Researches
In Education and Sciences

PROMOTED BY



Brazilian Nucleus
of Environmental
Researches and Health

Welcome
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Papers

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Prof. Dr. Claudio da Rocha Brito
Message from the General Chair

It is a fact that Health and Environment are intimately related. And it is a fact that more than ever scientists have an important role in the promotion of the world development. It is important to point out that fundamental research is more relevant and needed than ever before. Nevertheless the biggest challenge for science and technology is the promotion of development and sustainability with responsibility. It is the further step of science and technology of 21st Century.

The contemporary History shows the scientific and technological researches' advancements on all fronts and the benefits that include an outstanding array of new knowledge and products ranging from laser surgery to genetic testing, from global positioning systems to prediction of weather events, etc. By the other hand the growth of the human population and the growth in amount of resources used to support life in big scale are altering the environment in unprecedented ways. No doubt that the resulted environmental changes have serious consequences for humanity and climatic disruption, insufficient drinking water are some examples of undesirable results.

This is a time for meditation about what can be done in order to diminish the effects of large-scale alterations in





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biogeochemical cycles for human beings. Therefore the Environmental and Health World Congress (EHWC'2006) comes to promote not only a deep reflection about the environment and its consequences on health but also how to bring new ideas for the increment of the professionals' of the new millennium, which main characteristic is the awareness and the responsibility in the practice. The theme of this year's congress is "Natural Resources for the Health of Future Generations". Human health is being increasingly recognized as having strong environmental components. Some examples include the importance to human health of good air quality, clean drinking water, quality food, and minimal exposure to toxic chemicals not to mention the impact of land-use practices, urban population and the transmission of diseases. The ideas, opinions and professionals' contributions can be presented through Lectures with international specialists in their areas of performance, Plenary Sessions, Presentations of Papers and Workshops.

The contributions come from many areas of human knowledge and they show how much science and technology have been working in order to reach the aimed goal of promote human life with quality.

The Environmental and Health World Congress (EHWC'2006) is the result of a natural evolution of a very positive enterprise that started in 2000 counting with the efforts and good will of local scientists and researchers in order to discuss and to suggest in a more consistent way politics and actions to enhance the life quality of the community. This year the organizers are very proud of the number of quality contributions from many parts of the world besides the local ones.

The Environmental and Health World Congress (EHWC'2006) is organized by COPEC – Council of Research in Education and Sciences and promoted by NBPAS – Brazilian Nucleus of Environmental Researches and Health in Technical





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Cooperation (in alphabetical order): AAMP (Fishing Museum Friends Society), ABENGE (Brazilian Society for Engineering Education), ABO (Brazilian Dental Association), AGERCO (Brazilian Agency for Coastal Management), ASEE (American Society for Engineering Education), ASIBEL (Iberian-American Association of Engineering Education Institutions), GCMM (Global Congress on Manufacturing and Management), IEEE-Ed.Soc. (Education Society of the Institute of Electrical and Electronics Engineers), IGIP (Internationale Gesellschaft für Ingenieurpädagogik), INTERTECH (International Council for Engineering and Technology Education), IRCWR (International Reference Center for Water Reuse), Porto Gente (Sea Port and People), RBE (Brazilian Network of Engineering), SBE (Brazilian Society of Ecotoxicology), SEFI (Société Européenne pour la Formation des Ingénieurs), UNESP (University of São Paulo State) and UNISANTA (University Santa Cecilia) and Cultural Cooperation of Department of Culture of Santos.

We can not forget to mention and thank in special our partners and sponsors the FAPESP (State of São Paulo Research Foundation), CNPq (National Council for Scientific and Technological Development) and CAPES (Coordination for Improvement of Personnel of Superior Level).

Many colleagues from many countries have given their support to EHWC'2006 and fortunately the list is long and so it could not be comprised in a small space so our special thanks to all of them.

Our very special thanks to Prof. Maria Helena Lambert and Prof. Ermelinda Maura Chezzi, Rector and Vice-Rector of Catholic University of Santos (UniSantos), who supports every activity for the enhancement of Education in the City. We would like also to thank and congratulate the Local Program Committee, which efforts made this event possible.





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On behalf of the organizers and myself I wish you can enjoy this material and continue to contribute for the success of next Congresses, which richness is in the relations built along the exchange of ideas and joint ventures that it generates.

Finally my special thanks to the participants whose collaborations have enriched the event.

Prof. Dr. Claudio da Rocha Brito
GENERAL CHAIR
President of COPEC

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Prof. Dr. Melany M. Ciampi
Message from the Technical Program Chair

It has been a great satisfaction to contribute to the organization of the Environmental and Health World Congress (EHWC'2006), not only for the opportunity to acknowledge great researches going on but also for the opportunity to make contacts and build new relations. The richness of this privilege is outstanding and the results are very appreciated not only for the organizers but also by the authors and participants.

Looking back the years of the development of such Congress the international version is without any doubt the result of hard work of committed people with the goal to make a difference in the history of a community and now from Brazil to the world scientific community.

When people think about environment the first idea is the nature that is out door. The fact is that it is more than that it is the world that surrounds us indoors and outdoors. In this sense Health and Environment are innermost related and any change in any level affects the human being's life. So the choice of the theme of this year congress that is "Natural





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Resources for the Health of Future Generations” is very fortunate. The Congress congregates professionals of many areas of sciences from medical field to communication and arts, passing by dentistry, sociology, economy, engineering and computer sciences. It is the main characteristic of this congress since its very first edition.

The Book of Abstracts and the Proceedings constitute one humble contribution to health and environment search to reach the aim of promoting sustainable development and on behalf of the organizing committee I hope it comes to add to technological and scientific community.

Very special Thanks to all the researchers, authors and participants as well as to all the supporters which efforts have enhanced the success of the Environmental and Health World Congress (EHWC'2006).

Prof. Dr. Melany M. Ciampi
TECHNICAL PROGRAM CHAIR
President of NBPAS





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Prof. Dr. Joseph Harari
Message from the Vice Chair

The Brazilian Nucleus of Environmental Researches and Health (NBPAS) is an Organization of Civil Society of Public Interest that has the goal to develop researches in environment which aims to foster integrated environmental researches, seeking the conservation and protection of the natural resources, by the following actions.

- To accomplish integrated researches for the conservation of the natural resources and environmental protection;
- To create and to manage database on environmental researches;
- To publish the results of the researches in a wide way for the community's knowledge;
- To discuss the priorities of research programs with the community;
- To accomplish Congress, conferences, lectures, seminars, workshops and courses on environmental problems;
- To motivate the change of experiences and information with other institutions and government organizations to celebrate agreements to establish partnerships, to associate to people and institutions interested in environmental researches;
- To act to the public powers or private entities, requesting measures regarding the objectives of the entity;





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- To participate in state, national and international institutions in the efforts for improvement of the environment conditions;
- To develop specialization courses and professional re - qualification;
- To act in the constant defense of the strategic role of the science and technology for the economical, social, cultural development and for the sovereignty of the Country.

As in the Atlantic Forest Region is where the Nucleus develops most of its activities a Regional Nucleus has been created. It is the NPABS - Nucleus of Environmental Researches of Baixada Santista (now called Atlantic Forest Coast Region) that develops several activities in the region. It has been promoting monthly meetings in institutions of higher education in Santos and other cities open to scientists, authorities, companies, environmentalists and interested people in general for the discussion of problems of the environment in the region and the contributions of the scientific researches for its solution.

Prof. Dr. Joseph Harari
VICE CHAIR

President of Regional Nucleus of NBPAS in Atlantic Forest Coast Region





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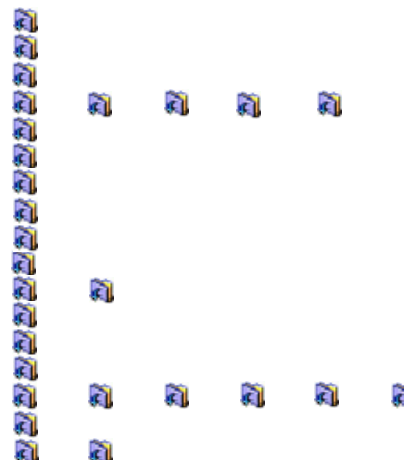


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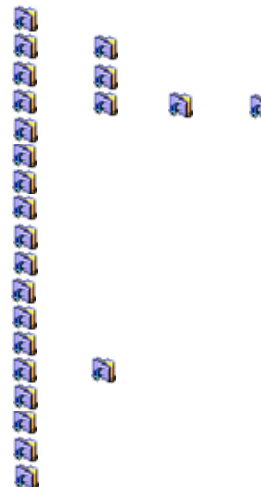


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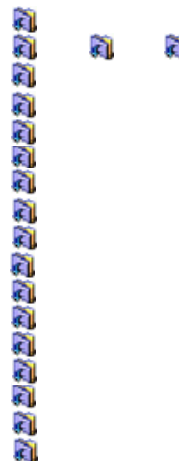
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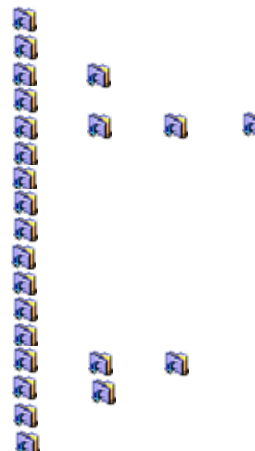
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EHWC'2006

Environmental and Health World Congress

Natural Resources for the Health of Future Generations

July 16 - 19, 2006 – Santos, Brazil

ORGANIZATION



Council of Researches
In Education and Sciences

PROMOTED BY



Brazilian Nucleus
of Environmental
Researches and Health

W

Wagner Batista dos Santos
Willian Carlos de Souza
Wilson Aroma



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- Welcome
- Committees
- Cooperators
- Place of the Event
- Papers



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Y

Yuji Ishiguro
Yuri A. Kopytenko
Yuri V. Trofimenko



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