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SHEWC 2009 – Safety, Health and Environmental World Congress – (2009: Mongaguá)

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

Reflecting about the theme of the SHEWC'2009 - **Safety, Health and Environmental Issues and the Impact on Contemporary World** it is more than evident that humanity is already facing the effects of abusive use of natural resources in order to promote the human welfare. Fortunately groups of people have made serious alerts and called the attention of the world to the impacts of such policy.

Certainly it is not necessary to be an expert to notice some facts such as the drastically changing of the climate, the bad quality of water and the accelerated and non natural extinction of botanical and animal species that are compromising the biodiversity which is the richness of earth.

Scientific studies show that man is part of nature and that it is necessary to promote the health and safe environment in order to have a healthy life in every level, a concept that the Native Indians already know for centuries.

The concepts of environment and safety are complex and they include the several ecosystems such as geographical, social and economical of all men however under this perspective it is fundamental to assure the sustainability of any project,



enterprise and product along the life cycle, considering the impacts and benefits in the economical, environmental and social dimensions. The so called sustainable development is what allows to the current generation to supply their needs without committing the safety and health of the future generations.

SHEWC'2009 is a forum for some important researches and actions that certainly add to the efforts of scientific community to improve the discussions and suggest solutions for the issues and the reduction of noxious impacts on the planet.

Safety Environmental and Health World Congress (SHEWC'2009) is organized by COPEC – Council of Research in Education and Sciences and promoted by OPASS – Organization of Researches in Environment, Health and Safety in Technical 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), ASIBEI (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), IFEES (International Federation of Engineering Education Societies), IGIP (Internationale Gesellschaft für Ingenieurpädagogik), INTERTECH (International Council for Engineering and Technology Education), IRCWR (International Reference Center for Water Reuse), Porto Gente (PortFolk), RBE (Brazilian Network of Engineering), RCI (Réseau Carthagène d'Ingénierie), SBE (Brazilian Society of Ecotoxicology) and SEFI (Société Européenne pour la Formation des Ingénieurs).

A special thanks to our sponsors FAPESP (State of São Paulo Research Foundation), CNPq (National Council for Scientific and Technological Development), CAPES (Coordination for Improvement of Personnel of Superior Level)



SEESP (State of São Paulo Engineers Union), FNE (National Federation of Engineers) and CNTU (National Confederation of Superior Level Professionals).

Many colleagues from many countries have given their support to SHEWC'2009 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 Architect Luciana Trizzini and Prof. José Francisco Garreta do Nascimento, Director and Former Director of Tourism of City of Mongaguá who supports every activity for the enhancement of Education, in the region.

I am sure that all the participants are engaged with the effort of making a difference in the discussions and actions that such event can provide to the scientific community as well as for the society as a whole.

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

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



Prof. Dr. Melany M. Ciampi

Message from the Technical Program Chair

As usual as the Technical Program Chair of SHEWC it is always a pleasure to read and to see all the great works that people and institutions are developing in order to give their contribution to the welfare of human kind. It moves me and increases my faith in future of men and our capability to overcome problems even when men create them.

Safety in every level and health principally physical and mental are intimately connected with environment once we all belong to the same ecosystem. This is a reason why it is important the promotion of forums like SHEWC for the discussions, suggestions and the proposals for the solution of problems in these fields. Congresses like this are very important principally because they improve the exchange of ideas and experiences enriching the researches and actions toward the solution for safety, health and environmental issues and the decrease of the impacts on contemporary world viewing the future.

I want to thank all the authors for their valuable contributions and participation hoping that they can take the best



of this experience in as such an environment that the city of Mongaguá can provide. My special thanks to the Mongaguá City Hall and Tourism Department for their great job hosting the SHEWC'2009.

Thank you,

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



Prof. Dr. Protasio Ferreira e Castro
Message from the VICE CHAIR

SHEWC - Safety, Health and Environmental World Congresses have been accomplished with the objective of making possible scientists and researchers to discuss the most recent developments reached in safety, health and environment. It was noticed in the participants of SHEWC the intention of doing an exchange of experiences in the four areas themes of the Congress.

In this sense, professionals that act in non governmental organizations, in the academy, in the market, and in the government they are aware that positive and negative experiences exist in safety, health and environment. An exam of the aspects positive, negative and of the facts future bearers it is the first step so that the information of significant value are transmitted and discussed pronouncing the insertion within the social responsibility.

The scientific works sent to the Technical Program Committee of SHEWC'2009 show that only when the reasons for positive and negative experiences are understood and published, the professionals, of safety, health and environment will have made truly everything to guarantee new successes and to prevent the appeal of the flaws.



In these terms, the Technical Program Committee selected the works for their scientific value and also for the expectation that it is an event for exchange of experiences, and the proceedings of the conference their record.

The organization wishes the participants to have a profitable event certain that it is due to the ability of transmitting experiences, good and bad ones, and of basing in the record of others' experiences that the humanity has been capable to elaborate new sceneries for society and the citizen in particular.

Prof. Dr. Protasio Ferreira e Castro
VICE CHAIR
Pro Rector of UNIGRANRIO



Prof. Dr. Joseph Harari
Message from the VICE CHAIR

The Organization of Researches in Environment, Health and Safety (OPASS) 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;
- 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 Countries.

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 OPASS in Atlantic Forest Coast Region



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PLACE OF THE EVENT



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