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

SHEWC'2010 – X Safety, Health and Environment World Congress, once again, congregates scientists and researchers for a wide discussion on the research, and the most recent developments, on safety, health and environment. No doubt that it is of fundamental importance for the improvement of the quality of living for the contemporary society in view of the future of the coming generations. SHEWC'2010 brings interesting and top accomplishments in these areas throughout the world. More than ever, science has showed to be a powerful tool for the development of tools to solve problems in these areas, so much necessary for the development and for the welfare of humanity as a whole. Inserted in this world scenario of the 21st century, SHEWC'2010 comes to promote not only a deep reflection about safety, health and environment, but also on how to bring new ideas for the increment of the formation of professional for the future. The ideas, opinions and professional contributions are showed in lectures by international experts in their specific areas, plenary sessions, presentations of scientific or technical works and workshops.

The Congress takes place in the City of São Paulo, forged from a melting pot of nationalities, cultures, beliefs, philosophies and ideals. This huge and pioneering metropolis is truly cosmopolitan by vocation and choice. This and so many other facets



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are reflected by the architecture of the buildings, the streets, the refined tastes of the city's culinary delights and by the styles and mannerisms of a people who never stops, as they boldly create the city's history, day after day.

On behalf of the SHEWC Organizing Committee, I would like to thank the Engineering School of Mackenzie Presbyterian University for hosting SHEWC'2010 in the person of Local Chairs Prof. Leila Figueiredo de Miranda and Prof. Marcel Mendes. I would like, also, to thank Prof. Ana Júlia Ferreira Rocha and Prof. André Luiz de Lima Reda, both of Mackenzie Presbyterian University, for their great work developed, and the efforts to make of this edition of SHEWC a success.

The X Safety, Health and Environment World Congress (SHEWC'2010) is organized by COPEC – Science and Education Research Council and promoted by OPASS – Safety, Health and Environment Research Organization in Technical Cooperation with (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).



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A special thanks to our sponsors 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).

I could never forget to thank the authors and participants for their collaboration willing to share their contributions for the development of science and technology in their fields of expertise.

I am very glad to welcome you to SHEWC'2010.

Thank you all!

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 pleasure to be once more the Technical Program Chair of the Safety, Health and Environment World Congress. This is the 10th edition and along the years it is possible to see the evolution of such important Congress for the scientific community.

As usual, it has counted with the collaboration of many researchers and professionals whose works in their fields of interest have contributed for the discussions and the proposition of solutions that are so important for the harmonious development of our society.

As important as the contributions is the work of the reviewers, who have diligently dedicated time and efforts for the review process. The workshops and Plenary Sessions will equally enlighten the congress with interesting topics related to the theme "**Converging towards sustainability**".



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On behalf of the Technical Program Committee of SHEWC'2010, I would like to thank all the people involved in the Congress, hoping that everybody enjoys it.

Thank you all!

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



Prof. Dr. Joseph Harari
Message from the Vice Chair

The Safety, Health and Environment Research Organization (OPASS) is an Organization of the Civil Society of Public Interest that has the goal to develop research in environment which aims to foster integrated environmental research, 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 databases on environmental research;
- To publish the results of the research 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 exchange of experiences and information with other institutions and government organizations in order to celebrate agreements to establish partnerships and to associate to people and institutions interested in environmental research;

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- To act towards the public powers or private entities in order to request measures regarding the objectives of the entity;
- To participate in state, national and international institutions within 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 science and technology for the economical, social and cultural development, and for the sovereignty of the Countries.

As the Atlantic Forest Region is where the Nucleus develops most of its activities, a Regional Nucleus has been created for it. It is the NPABS - Atlantic Forest Coast Region Environment Research Nucleus, which develops several activities in the region. OPASS has been promoting monthly meetings in institutions of higher education in Santos, and other cities, open to scientists, authorities, companies, environmentalists and people interested, in general, on the discussion of problems of the environment in the region, and in the contributions of the scientific research for their solution.

Prof. Dr. Joseph Harari

VICE CHAIR

President of the Regional Nucleus of OPASS in the Atlantic Forest Coast Region

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PLACE OF THE EVENT



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