



## INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

"KEY ELEMENTS FOR A SUSTAINABLE WORLD: ENERGY, WATER AND CLIMATE CHANGE"

### **Cleaner Production Research at the University of New Orleans, USA**

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The University of New Orleans (UNO), a Carnegie Doctoral/Research Intensive University, provides essential support for the educational, economic, cultural and social well-being of the culturally rich and diverse New Orleans metropolitan area. UNO offers 43 undergraduate degree programs, 37 masters, and 11 doctoral programs from five academic colleges and caters to the needs of highly qualified national and international students. UNO's award winning faculty have research partnerships with NASA, DARPA, DoD, Office of Naval Research, USGS, U.S. Wildlife and Fisheries, NOAA and many public organizations and private industries. UNO's strategic location in the Gulf Coast where maritime industry is dominant and UNO's nationally recognized School of Naval Architecture and Marine Engineering (NAME) were synergetic in promoting UNO's cleaner production research. The author with his strong background in environmental engineering, industrial engineering, and sustainability was able to establish a "Clean Technologies Initiative" within the Department of Civil & Environmental Engineering to promote "Cleaner Production" within the maritime industry. Research concepts, approaches, and infrastructure developed at UNO will be scalable to the demands of other municipal, industrial, and service sectors to (1) minimize their multimedia waste generation and (2) protect environmental quality, worker health and public health.

This plenary session presentation specifically covers highlights of the author's experiences in developing UNO Clean Technology Research Initiative and will address the following topics:

- Clean technology and cleaner production research goals
- Case study of maritime industry and development of resources at UNO
- Student training and training of industry personnel

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- Scalability of research concepts, resources, and results to other sectors
- Management / software tools to effectively transfer the benefits of research
- Current and future research

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