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Research Express News

Georgia Southern University

Herty Technology Innovation Seminar Series on September 17, 2015

September 9, 2015

Herty Technology Innovation Seminar Series

DATE: September 17, 2015

TIME: 3PM – 4PM

LOCATION: Herty AMDC

110 Brampton Road

Savannah, GA 31408

SPEAKER: Dr. Celine Manoosingh

Department of Civil Engineering, Georgia Southern University

TITLE: Integrated Life Cycle Assessment: A Practical Approach to Environmental Decision Making

Life Cycle Analysis (LCA) is a decision support tool used to quantify the environmental impacts of a product or process, such as greenhouse gas emissions, water pollution, land use, toxins, and more. These impacts can be measured for any or all phases of a product's lifecycle, including manufacturing, distribution, use, and disposal. Practically, LCA can be a useful tool to determine what stages of a process are the most environmentally harmful, and to compare products through customized assessment metrics. LCA is especially effective when used in conjunction with life cycle costing, allowing practitioners to identify environmental and economic tradeoffs of their design decisions.

Participants in the seminar will:

 Gain an awareness of impending environmental regulatory changes from federal organizations, like the Department of Energy, that may affect their businesses

 Gain an understanding of how LCA can be used effectively to achieve their organization's sustainability goals

 Understand the basics of Life Cycle Analysis (LCA) methodologies and software, and become aware of the life cycle inventory databases available to assist in conducting an LCA

 Interpret LCA results and understand how they can be used in conjunction with a simple cost analysis to aid in critical decision making

TARGET AUDIENCE: Senior Business Managers, Sustainability and Compliance Officers, Product Developers Herty Advanced Materials Development Center 2

ABOUT THE SPEAKER: Dr. Celine Manoosingh's research focus is on product development in the area of sustainable infrastructure. Her research utilizes life cycle assessment to identify environmental tradeoffs using mid-point and end-point methodologies, determine technical and environmental risks, and develop comprehensive cost-benefit models for effective

decision making at each stage of the product life cycle. She has been active in consulting to develop sustainable design strategies for clients to meet Department of Energy, California Energy, and Energy Star benchmarks.

Dr. Manoosingh earned her Ph.D. in Civil Engineering from the University of South Florida, with a focus on sustainability in the built environment. She currently teaches Green and Sustainable Construction and Project Cost Analysis at Georgia Southern University.

Dr. Manoosingh is a member of the American Center for Life Cycle Assessment, American Society for Engineering Education, and the American Society of Civil Engineers. She has served as a vice president of the Society of Women Engineers professional chapter since 2012.

MORE INFORMATION: Fern Howard | 912-963-2633 | fhoward@herty.com

PLEASE NOTE: The Herty Center is a secure facility. Please bring a picture ID and check in at the front desk. Georgia Southern Employees must bring their Georgia Southern ID. Visitor parking is available at the main entrance.

RSVP REQUESTED: In order to prepare for the seminar and have visitor badges pre-printed, we respectfully request that you RSVP at least 24 hours before the seminar. We welcome any and all last minute attendees.

RSVP Diane Jones: 912-963-2600, djones@herty.com

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