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**IEOM Awards – 2017 Bogota Conference**  
**October 26, 2017**

**IEOM Leadership Award**

**Bienvenida a Cargo del Rector José Manuel Restrepo**  
Univeristy of Rosario  
Bogota, Colombia

**IEOM Distinguished Service Award**

**Professor Sandra Milena Chacon Sanchez – Conference Co-Chair**  
Director of the Business Administration Program  
Director of Logistics and Production Program  
Universidad del Rosario, Bogota, Colombia

**IEOM Distinguished Educator Awards**

**Alejandro Cheyne**  
Dean School of Business  
University of Rosario  
Bogota, Colombia

**Dr. Andrés Medaglia**  
Professor and Chair  
Department of Industrial Engineering  
Universidad de los Andes Colombia  
Bogota, Colombia

**Dr. Lope Hugo Barrero**  
Associate Professor and Chair  
Department of Industrial Engineering  
Pontificia Universidad Javeriana  
Bogota, Colombia

**Dr. Wilson Adarme Jaimes**  
Professor and Dean  
Universidad Nacional de Colombia

**Dr. Lina Prada**  
Director – Industrial Engineering Department  
Universidad del Norte, Barranquilla, Colombia

**Dr. Juan G. Villegas**  
Associate Professor  
Department of Industrial Engineering  
Universidad de Antioquia  
Medellín, Colombia

**IEOM Distinguished Industry Award**

**Dr. Pedro Jose Fernandez Ayala**

Vicepresidente de innovación e inteligencia  
Sectorial PROCOLOMBIA

**Fabian Escudero**

Gerente General CELPA

**Dr. Edgar Higuera Gomez**

Gerente de Logística, Transporte e Infraestructura de la ANDI

**Leonardo E. Wilinski**

VP South America Channel  
Siemens Industry Software  
Digital Factory Division  
Product Lifecycle Management  
Sao Paulo, SP, Brazil

**Enrique Sandoval**

Vice President and COO  
OCENSA  
Bogota, Colombia

**Dr. Juan Diego Alzate**

Fundador de Transprojects (Paris), Smart Grop Asia (China)  
“Acredited Trainer” en Paris para International Chamber of Commerce (ICC) en Incoterms®.

**Dr. Rodolfo Sabonge**

Ex Vicepresidente del Canal de Panamá

**Dr. Gian Paolo Gandini**

Director Corporativo de adsorchind Belcorp  
Gerente general Andina Charer paner Apics

**Dr. Fernando Cámara**

Director de Logística Jerónimo Martins ARA

**Sebastian Puerta Mantilla**

Director de Operaciones de LATAM

**Daniel Villa Camacho**

Chief Operation Official of Colombia, Peru and Ecuador of Domicilios.com

**Diana González Díaz**

Gerente de Mercadeo

**IEOM Women in Industry and Academy Award**

**Professor Sandra Milena Chacon Sanchez**

Director of the Business Administration Program  
Director of Logistics and Production Program

Universidad del Rosario, Bogota, Colombia

## IEOM Global Engineering Education Award

### Dr. Francisco I. Giocondo César

Professor, Department of Industrial Engineering

Federal Institute of Education, Science and Technology of São Paulo (IFSP - Campus Piracicaba)

Professor & Researcher Collaborator in the Production Engineering Graduate Program at the Campinas State University (FCA – UNICAMP – Campus Limeira)

Brazil

## Undergraduate Student Paper Competition Awards Sponsored by SIEMENS

### 1<sup>st</sup> Place

ID 95 Inventory supply model for perishable products. The Calicarnes case

Ivan Daniel Mesias and Fernando Alberto Osorio, Civil and Industrial Engineering Department, Pontificia Universidad Javeriana – Cali, Cali, Colombia

Jenny Díaz-Ramírez, Engineering Department, Universidad de Monterrey, San Pedro Garza García, 66238, N.L. Mexico

### 2<sup>nd</sup> Place

ID 88 Increment in on-time deliveries of mouldings to improve customer service of Fabricacion de Maquinas S.A. De C.V.

Diego Martínez, Sergio Cabello and Donaldo Hernández University of Monterrey, México

### 3<sup>rd</sup> Place

ID 282: Optimization of times to improve the perception of the attention to the user in the HUM (Méderi)

Valeria Mendoza Cotes and Lina Maria Garcia

Logistic and Production Management

Universidad del Rosario, Bogota, Colombia

## Graduate Student Paper Competition Awards sponsored by EATON Corporation

### 1<sup>st</sup> Place

ID 84 Success Factors Comparison in the Logistics Clusters Located in East Asia-Pacific, North America, and Western Europe. A Systematic Literature Review

Rubén Rendón Benavides and Teresa Verduzco-Garza

Department of Engineering

Universidad de Monterrey

San Pedro Garza García, Mexico

### 2<sup>nd</sup> Place

ID 117 Competencies to adopt Industry 4.0 for operations management personnel at automotive parts suppliers in Nuevo Leon

Milagros Díaz Bermúdez and Benito Flores Juárez

School of Engineering

University of Monterrey, Nuevo Leon, Mexico

### 3<sup>rd</sup> Place

ID 91 Operation Management in Hospitals: A Literature Review

Riccardo Maccaferri Gonzalez, Fernando Gonzalez Aleu, Luz Maria Valdez and Jenny Diaz Department of Engineering

Universidad de Monterrey

San Pedro Garza García, NL, México

## Best Track Papers Awards

Id 2

**Game of Patterns: an approach for solving mixed integer nonlinear optimization problems**

Ebert Brea

Department of Electronic, Computing and Control,  
School of Electrical Engineering, Faculty of Engineering, Central University of Venezuela,  
Caracas 1053, Venezuela

Id 17

**Recycled Aggregates for Green Concrete**

Abrahams Mwashu and Rakesh Ramnath  
Department of Civil and Environmental Engineering  
University of the West Indies  
St Augustine Campus Trinidad and Tobago

Id 31

**Improve the product design process, with CFD and DOE approach**

Julián Ignacio López Arcos  
Department of Industrial Engineering  
Universidad de San Buenaventura, Cali, Valle, Colombia

Ramiro Gustavo Camacho  
Institute of Mechanical Engineering  
Federal University of Itajubá, Itajubá, MG, Brazil

Paulo Henrique Da Silva Campos  
Institute of Production Engineering and Management  
Federal University of Itajubá, Itajubá, MG, Brazil

Carlos Eduardo Sanches Da Silva  
Institute of Production Engineering and Management  
Federal University of Itajubá, Itajubá, MG, Brazil

Anderson Paulo de Paiva  
Institute of Production Engineering and Management  
Federal University of Itajubá, Itajubá, MG, Brazil

id 51

**Designing the Emergency Medical Operations System Structure: A Case Study**

Bernardo Villarreal, Edgar Granda, Andrea Montalvo, Samantha Lankenau & Ana Cristina Bastidas  
Universidad de Monterrey  
San Pedro Garza García, N.L., México 66238

id 55

**Trade-offs between Environmental and Economic Objectives in Closed-Loop Supply Chains**

Oscar Fabián Velásquez Rodríguez, PhD (C)  
Universidad Nacional de Colombia  
Bogotá, Colombia

Carlos Eduardo Moreno Mantilla, PhD  
Systems and Industrial Engineering Department  
Universidad Nacional de Colombia  
Bogotá, Colombia

ID 57

Impact of EMS (ISO 14001) on a  
**Manganese Mine Operations in Gabon: Case Study**

Thierry Ngoundou Boulamatari and Charles Mbohwa  
Department of Quality and Operations Management  
University of Johannesburg  
P O Box 524, Auckland Park 2016  
Johannesburg, South Africa

Ignatio Madanhire  
Department of Mechanical Engineering  
University of Zimbabwe  
P.O Box MP167, Mt Pleasant  
Harare, Zimbabwe

Id 69

**Carbon Footprint Analysis of Electric Taxis in Istanbul**

Nuri Cihat Onat<sup>1</sup>, Murat Kucukvar<sup>1</sup>, Parinaz Toufani<sup>2</sup>, Muhammad Ali Haider<sup>2</sup>  
<sup>1</sup>Department of Mechanical and Industrial Engineering, Qatar University, Qatar  
<sup>2</sup>Department of Industrial Engineering, Istanbul Sehir University, Istanbul, Turkey

Id 73

**The Effects of Innovation on Manufacturing Competitiveness of the Leading Countries in the Automotive Industry**

Rolando Rodríguez Alanís  
Industrial and Systems Engineering Program  
University of Monterrey  
Nuevo Leon, Mexico

Luz María Valdez de la Rosa  
Engineering Management Program  
University of Monterrey  
Nuevo Leon, Mexico

Fernando González-Aleu González  
Engineering Department  
University of Monterrey  
Nuevo Leon, Mexico

María Teresa Verduzco Garza  
Engineering Department  
University of Monterrey  
Nuevo Leon, Mexico

Id 78

**Stochastic inventory control and distribution of blood products**

Andrea Pirabán Ramírez  
Université de Technologie de Troyes  
Troyes, France

Nacima Labadie  
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Université de Technologie de Troyes  
Troyes, France

Id 92

**Increase of the number of internal trips in a steel company: A case of study**

Ricardo Adrián Cisneros Hernández  
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San Pedro Garza García, 66238, N.L.

Diana Paola Morales Mata  
Engineering Department  
Universidad de Monterrey  
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Jenny Díaz-Ramírez  
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id 108

**Wind farm maintenance scheduling model and solution approach**

Andres Felipe Gutierrez  
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id 110

**A Control Policy for a Multi-Stage Remanufacturing System**

Narges Shahraki  
Michael Foods Inc.  
MN 55305, USA

Id 111

**Sorting methodology to select carriers in a Colombian Green Coffee Supply Chain using PROMETHEE method**

Johanna Trujillo Diaz  
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Rafael Guillermo García Cáceres  
- Industrial Engineering Faculty  
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Id 113

**Software as a Service Google Apps in the Internal Communication of the National University of San Antonio Abad del Cusco**

Hernán Nina, Lauro Enciso  
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Cusco, Perú

William A. Chavez  
Graduated from the computer engineering and systems  
National University of San Antonio Abad  
Cusco, Perú

Id 213

**Solución al problema de envasado en pesadoras multicabezales mediante la optimización matemática**

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Id 222

**An Analysis of Engineering Education impact on Brazil's Micro Regions**

Vitor Mendes Caldana  
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Santana de Parnaíba, SP, Brazil

Márcia Terra da Silva

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UNIP - University Paulista  
São Paulo, SP, Brazil

Id 233

**Web Site Usability Measurement: A Case of Fatih University**

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Id 235

**A cost- effective collaborative inventory management strategy between non-competitor companies; a case study**

Carlos Oteroa

René Amayaa

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Barranquilla, Colombia

ID 236

**Logistics model for collection and distribution of critical foods. Valle del Cauca case.**

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ID 260

**Priority Rules Performance Analysis as a GA Initial Population for RCMPSP**

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**CVRPTW model applied to the collection of food donations**

Iván Guillermo Peña Arenas, Alexander Gutiérrez Sánchez, Carlos Armando, López Solano and Linda Bibiana Rocha Medina  
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Id 274

**Organic solid waste treatment and its deposition through sewage net. Technical and financial analysis for domiciliary treatment systems.**

Willson, Victoria; Calcagno, Facundo Martín; Boeykens, Susana P.; Caracciolo, Néstor  
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Chemistry Laboratory of Heterogeneous Systems (LaQuíSiHe),  
Buenos Aires, Argentina

**ID 276 Just in Time Strategy and Profitability Analysis in Financial Statements**

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