



ASIA-PACIFIC  
INDUSTRIAL  
ENGINEERING  
AND  
MANAGEMENT  
SOCIETY (APIEMS)



PHILIPPINE INSTITUTE OF INDUSTRIAL ENGINEERS

**I.E. RESEARCH CONFERENCE 2003 (IERC 2003)**  
*October 16-18, 2003 Mandarin Oriental Hotel*

***THEME: “ACCELERATING NATIONAL DEVELOPMENT  
THROUGH ENHANCED I.E. RESEARCH CAPABILITY”***



UNITED NATIONS  
ENVIRONMENT  
PROGRAMME  
(UNEP)

## ***Conference Programme***

### ***Day 1: October 16, 2003***

Time	Activity	Speaker
10.00-13.00	Registration	
13.00-13.05	Opening Program	Ms. Venusmar Quevedo Trustee and Chair, IE Research Conference 2003
13.05-13.15	Welcome Remarks	Mr. Elpidio Carlota President, PIIE
13.15-13.25	Signing of MoU between PIIE and DENR	(Tentative)
13.25-13.30	Introduction of the Keynote Speaker	Mr. Anthony Chiu Trustee and Chair, External Affairs and Vice Chair, IE Research Conference 2003
13.30-13.45	Keynote Speech	Hon. Secretary Elisea Gozun / Hon. Undersecretary Ignacio Dept. of Environment and Natural Resources (to be confirmed)
13.45-14.15	Sustainable Production and Consumption	Mr. Niclas Svenningsen Industry Officer, United Nations Environment Programme
14.15-15.00	OR for Airlines Industries	Professor KK Lai Associate Dean, City University of Hong Kong
15.00-15.45	Total Quality Management	Professor Rene Domingo Professor, Asian Institute of Management, Philippines
15.45-16.00	Coffee and Poster Session (see appendix)	
16.00-16.45	Portfolio and Project Management	Professor S.Y. Wang Executive Dean, Chinese Academy of Science, China
16.45-17.15	Confronting the Goliath: A Pediatric Network's Journey to Technology Deployment	Dr. Benjamin Yabut Program Director for the Manufacturing Group Institute for Industrial Engineers (IIE), U.S.A.
17.15-17.30	Open Forum and Closing Remarks	Ms. Miriam Necesito Trustee and Vice Chair, IE Research Conference 2003

### ***Day 2: October 17, 2003***

Time	Activity	Speaker
08.30-08.40	Welcome Remarks	Mr. Vicente Co Vice President, PIIE
08.40-08.45	Signing of MoU between PIIE and CIIE, Taiwan	
08.45-08.50	Introduction of the Keynote Speaker	Mr. Anthony Chiu Trustee and Chair, PIIE External Affairs and Vice Chair, IE Research Conference 2003
08.50-09.20	Plenary Speech	Professor Tsong-Ming Lin President, Chinese Institute of Industrial Engineers, Taiwan
09.20-09.25	Introduction of the Guest of Honor	Mr. Rodel Adviso Honorary Trustee, PIIE
09.25-09.45	Keynote Speech	Commission on Higher Education (to be confirmed)
09.45-10.30	Research Methodology	Dr. Jose Mutuc Professor, De La Salle University
10.30-11.00	Coffee Break and Poster Sessions (see appendix)	
11.00-12.00	Parallel Sessions (see appendix)	1. Mathematical Tools/ Operations Research 2. Total Quality Management / Statistical Process Control
12.00-13.30	Lunch Break	
13.30-15.00	Parallel Sessions (see appendix)	3. Sustainable Development/Environmental Mgt. 4. Manufacturing and Production Management
15.00-15.30	Coffee Break and Poster Sessions (see appendix)	
15.30-16.30	Parallel Sessions (see appendix)	5. Supply Chain Management / Service 6. Human Factors Engineering /Ergonomics
16.30-17.00	Closing Remarks	Professor K. K. Lai APIEMS President-elect and Co-Chair, IE Research Conference 2003

### ***Day 3: October 18, 2003-Plant Visit***

<b>TIME</b>	<b>SELECTED PAPERS FOR VERBAL PRESENTATION IN PARALLEL SESSIONS</b>	
11.00-11:30	<b>MATHEMATICAL TOOLS/ OPERATIONS RESEARCH</b>	<b>TOTAL QUALITY MGT./STATISTICS</b>
	<i>A Bayesian Analysis of Structural Change in Linear Model</i> Johnny Amora, Univ. of Regina Carmelli	<i>Non-parametric Model Characterization of TQM System Applied to Philippine Manufacturing Companies</i> Noel Cabigon and Anna Bella Manalang De la Salle University
11:30-12.00	<i>Environmental Applications of Fuzzy Linear Programming</i> Raymund Tan and Dennis Cruz De la Salle University	<i>The Application of Statistical Process Control in the Academe</i> Joehanna Ngo, Univ. of Santo Tomas
1:30-2:00	<b>SUSTAINABLE DEV'T/ ENVIRONMENTAL SYSTEMS MGT</b>	<b>MANUFACTURING AND OPERATIONS MANAGEMENT</b>
	<i>Developing A Green Productivity Diagnostic Model Using Multi-criteria Decision Analysis and Life Cycle Assessment</i> Ruby Henson-Pineda, Holy Angel University	<i>IDEF Modeling of Distributed Concurrent Engineering</i> Richmond Sanchez, Adamson University
2:00-2:30	<i>Evaluation Electric Vehicle Battery Technologies Using Multi-criteria Decision Analysis</i> Anthony Halog; M Sagisaki.; and A.Inaba National Institute of Advanced Industrial Science and Technology, Japan	<i>An MCDM Model for Facilities Location as Applied to a Float Glass Manufacturer</i> Lourdes Kathleen Santos-Tankia Univ. of the Philippines
2:30-3:00	<i>A Simplified Approach to Assessment of Environmental-Sound Products</i> Virginia Soriano, Univ. of the Philippines	<i>An Optimal Acquisition Model for Advanced Manufacturing Technology Considering Multiple Objectives and Timing of the Acquisition</i> Willy Zalatar, De la Salle University
3:30-4:00	<b>SUPPLY CHAIN MANAGEMENT/SERVICE</b>	<b>HUMAN FACTORS ENGINEERING/ERGONOMICS</b>
	<i>Network Approach to Supply Change Management in Higher Education</i> Satya P. Chattopadhyay Univ. of Scranton, USA	<i>Effects of Operator Age and Brain Hemispheric Dominance in Maintenance Cost of BT Reflex Reach Trucks</i> Vincent Arnold Chung and Maia Romanes Univ. of the Philippines
4:00-4:30	<i>Service performance of Self-service Technologies (SSTs) and the Management of Service Quality in the Philippines</i> Louie A. Divinagracia, De la Salle Univ.	<i>Mango Sorting Using Machine Vision System</i> A Liggayu and D.M. Bulanon Univ. of San Carlos, Cebu
4:30-5:00	<i>The Result of Implementation of the Paper Base Self-Instructing Computer Integrated (CIM) Modules to the School of Industrial Engineering of Mapua Institute of Technology</i> Ariel Cayanan, Mapua Inst. Of Technology	<i>Bridging the Gap in Ergonomics in the Workplace</i> Virmilou C. Divinagracia Lapanday, Davao City
5:00-5:30	<b>CONCLUSION</b>	

**PAPER PRESENTATION**

(Kindly refer to another attachment)

## SELECTED PAPERS FOR POSTER PRESENTATION

B	Edwin B. Cano Holy Angel University	<i>Risk Assessment for Power Distribution System Operations</i>
C	Tom N. Chu Univ. of the Philippines	<i>Stochastic Simulation in Valuing Mortality and Investment Risk</i>
E	Ethelbert Dapiton Univ. of Regina Carmelli	<i>From Reliability to Customization: Aspect of Evolution of Total Quality Management</i>
F	Ma. Rochelle G. Divinagracia De la Salle University	<i>Buying Behavior Analysis of Ready-to-Drink: Inputs to the Operational Excellence of Local Dairy Processors Serving Target Markets</i>
H	Luisito Hagos and Michael Benevidez New Era University	<i>Enhancing IE Curriculum Through Research Integration</i>
I	Anthony Halog National Institute of Advanced Industrial Science and Technology, Japan	<i>A Fuzzy Linguistic Approach of Sustainable Product Design Improvement Alternatives</i>
J	B.R. Lim and. M. Rivera University of San Carlos	<i>Ergonomic Instructor's Manual with Applications Focused on Industries in the Visayas Region</i>
K	Carlos Lugay Jr. Univ. of Santo Tomas	<i>Marketing Study on the Establishment of the University of Santo Tomas' Center for Professional Development and Consultancy Services</i>
L	Aura Matias; A Dela Cruz; A Evaristo.; A Lavarias; and M. Tagamolila Univ. of the Philippines	<i>Gender Preference of Patients in the Selection of Attending Physicians</i>
M	Severino Ongcuangco Mapua Institute of Technology	<i>A Complete Randomized Block 2<sup>2</sup> Design on Tape and Steel STS 484 Machine</i>
N	Renee Parcon Lapanday, Davao	<i>Competitive Advantage Through Training and Development</i>
O	John Mar Quinto, Michelle Salazar, Richard Villanueva, Joanna Zomil, Aura C. Matias Univ. of the Phils.	<i>An Ergonomic Evaluation and Design of the Scuba Diving Mask for the Filipino Face</i>
P	Rex Aurelius S.Robielos Mapua Institute of Technology	<i>Investment Decisions of the Philippine Institute for Development</i>