
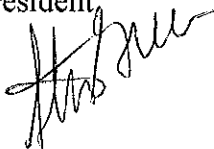




MEMORANDUM

To: Edward T. Foote II, President

From:  Steven Green
Chair, Faculty Senate



4/5/01
5 stars,
✓ approved.
377

Date: 29 March 2001

Subject: Faculty Senate Legislation #2000-21(B) - Approval of the College of Engineering Perry Ellis International Logistics Research Institute

The Faculty Senate, at its 28 March 2001 meeting, voted to approve the name of a sponsored institute, the College of Engineering Perry Ellis International Logistics Research Institute, for the period of time of continuous funding and any extensions thereafter.

This legislation is now forwarded to you for your action.

SG/kl

cc: Luis Glaser, Provost
M. Lewis Temares, Dean of the College of Engineering
Shahib Asfour, Professor and Chairman, Department of Engineering

CAPSULE: Faculty Senate Legislation #2000-21(B) - Approval of the College of Engineering
Perry Ellis International Logistics Research Institute

RESPONSE BY THE PRESIDENT: Approve DATE: 4/5/21

OFFICE OR INDIVIDUAL TO IMPLEMENT: Provost

APPROVED: _____

EFFECTIVE DATE OF LEGISLATION: _____

NOT APPROVED AND REFERRED TO: _____

REMARKS (IF NOT APPROVED): _____

College of Engineering Perry Ellis International Logistics Research Institute

**Department of Industrial Engineering
College of Engineering
University of Miami
Coral Gables, FL**

Date: February 21, 2001

A. Mission and Objectives of the Institute

The College of Engineering Perry Ellis International Logistics Research Institute of the University of Miami is an industry/academia collaboration with the following mission statement: *"To provide top notch quality multi-disciplinary education, training and research programs in supply chain management and logistics that meet the current and emerging needs of the community and industry in the U.S., Latin America and the rest of the world"*.

The Institute will accomplish this by:

- disseminating logistics knowledge thorough a variety of educational programs (on and off-campus)
- creating logistics knowledge through engineering research and
- applying state of the art logistics knowledge through joint industry/academia cooperative efforts
- establishing a research environment for students to learn, practice and train in the field of logistics.

The Institute will focus on capitalizing on the role of Miami as a major transportation hub and its importance on the entire United States – Latin America supply chain, further customizing the services offered to its business partners. Further, the Institute will be responsible for developing and offering courses, workshops and seminars to executives both in the South Florida and Latin America regions. Finally, it will explore the viability of creating a concentration area in supply chain management and logistics both at the undergraduate and graduate curricula.

B. What Gaps Will the Institute Fill?

While many companies are involved in the analysis of their supply chains, this analysis in most cases is based on experience and intuition; only in a few instances analytical methodologies and tools have been used. On the other hand, most of the tools that have been developed by the academic community during the last two decades have proven to be not sufficiently robust and flexible to be used by the logistics industry.

However, during the last few years advances have been made in the development of more sophisticated analytical tools and decision support systems that are not necessarily familiar to industry. Such decision support systems employing tools from operations research, geographic information systems, database management and graphical user interfaces can potentially improve significantly the quality of logistics decision-making. This interdisciplinary structure imposes unique requirements in logistics education at both the undergraduate and graduate levels; these

requirements, for the most part, have not been addressed successfully by traditional, vertically organized engineering and business school programs. Effective educational programs should go beyond the traditional course structure and instead embrace a holistic composite modeling approach synthesizing state-of-the-art models, innovative software, simulation based educational games and case studies. This is the approach that the Institute aims to undertake both in its educational and research roles.

C. Business Partners

Each business partner will provide an annual contribution to support the research and educational programs of the Institute. The services provided by the Institute to the business partners will be commensurate to the level of funding. The funds committed by the business partners will be used to provide:

- Professional education (short courses, seminars and workshops tailored to the specific needs of the Business Partners)
- Customized research that provides new knowledge, and methodological tools to address issues of immediate interest to the business partners.
- Generic research, oriented toward developing new knowledge, strategies, and methods for the logistics community
- Support for faculty and students conducting the research

D. Resources

The Institute will be housed in the Department of Industrial Engineering (IEN) at the College of Engineering of the University of Miami. The Department is almost 50 years old and offers the following accredited degrees:

- B.S. in Industrial Engineering
- M.S. in Industrial Engineering
- M.S. in Management of Technology
- M.S. in Environmental Health and Safety
- M.S. in Occupational Ergonomics and Safety
- M.B.A./M.S.I.E
- Ph.D. in Industrial Engineering
- Ph.D. in Ergonomics

The Department has pioneered the offering of innovative off-campus and executive programs at the graduate level for over 20 years, and it has accumulated extensive experience in providing high caliber continuing education programs. These programs were offered to professionals from a wide range of companies including among others IBM, AT&T, Rockwell International, McDonnell Douglas, United Space Alliance, Johnson & Johnson Cordis Corporation, and Pratt & Whitney.

D1. Personnel

Director:

Dr. Eleftherios Iakovou is an Associate Professor and the Director of Graduate Studies in the Department of Industrial Engineering of the University of Miami. He is also the Director of the Systems and Operations Research Laboratory founded in 1994. Dr. Iakovou has received his M.S. and Ph.D. degrees in Operations Research and Industrial Engineering from Cornell University. His research and teaching interests include supply chain management, logistics, inventory control, maritime transportation, yield management and process reengineering. He has published extensively research in inventory control, transportation, supply chain management, yield management, and emergency response management in top peer reviewed scientific journals such as *Transportation Science*, *IIE Transactions*, *European Journal of Operations Research*, *International Journal of Production Research*, *Annals of Operations Research*, *Maritime Policy and Management*, *International Journal of Risk Assessment and Management*. Dr. Iakovou has consulted extensively for governmental and corporate organizations such as the U.S. Department of Transportation, the U.S. Coast Guard, Ryder Dedicated Logistics, Sea Land, the U.S. Department of Veterans Affairs and the Department of Transportation of the University of Miami.

Associate Director:

Dr. Shihab Asfour is Professor and Chairman of the Department of Industrial Engineering at the University of Miami. In addition he holds the position of Professor in both the Neurological Surgery and Biomedical Engineering departments. He received his Ph.D. in Industrial Engineering from Texas Tech University, Lubbock, Texas. Dr. Asfour's research interests include Business Process Reengineering, Industrial Ergonomics, Work Physiology, Biomechanics, Rehabilitation Engineering, Safety Engineering, Work Measurement, Systems Design and Quality Engineering. Dr. Asfour has published more than 170 articles in national and international journals, proceedings and books. His publications appeared in the *Ergonomics*, *Human Factors*, *Spine* and *IIE* journals. He has also edited the following two books: *Trends in ergonomics/Human Factors IV* published by Elsevier Science Publishers in 1987, and *Computer Aided Ergonomics*, published by Taylor and Francis, 1990. Dr. Asfour has served as a consultant to industrial, service, and educational organizations for over 25 years.

Institute Scientists:

- Dr. Edward Baker, Professor and Chairman, Department of Management Science
- Dr. Ronny Aboudi, Associate Professor, Department of Management Science
- Dr. Anujh Merhotra, Associate Professor, Department of Management Science
- Dr. Chang-Yen Lan, Assistant Professor, Department of Civil, Architectural and Environmental Engineering

D2. Laboratory Facilities

The following technical laboratories and facilities are available within the IEN Department:

- Systems and Operations Research Laboratory
- Work Design Laboratory
- Biomechanics Research Laboratory
- Rapid Prototyping Laboratory
- Manufacturing Engineering Laboratory

- Work Physiology Laboratory
- Industrial Hygiene Laboratory
- Productivity Research Laboratory

All the laboratories are outfitted with state of the art computers and research equipment. In addition, the Department houses a brand new high tech conference room with internet connectivity, featuring the latest multimedia and audiovisual equipment specifically designed for executive training.

E. Business Plan

We have already secured \$100,000 in cash from Perry Ellis International, \$200,000 in warehouse management software from Manhattan Associates, and an IBM AS400 server from Perry Ellis International. Additional funding is being sought from local and regional companies involved in logistics and supply chain management.