

**Dr. Pavel Albores-Barajas**

**Current Title: Lecturer**

**Operations and Information Management**

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Age Group: 30 - 39

Country of Birth: Mexico

Languages: English, Spanish, French

**Brief Biography**

Pavel Albores joined Aston in September 2004. Pavel recently received his PhD in a graduate of the Universidad de las Americas-Puebla (Mexico), where he gained a Bachelor's degree in Chemical Engineering. He worked for Xerox Mexicana Manufacturing as a materials engineer before joining the University of Strathclyde where he gained a M.Sc. in Management of Competitive Manufacturing (MCM). He has participated in research projects in the areas of knowledge management and supply chain management. Has acted as consultant in the area of manufacturing simulation. His current interests are Manufacturing Simulation, Business Processes, e-business, Supply Chains and networked organisations and Information Technology in the manufacturing context.

**Administrative Roles and Responsibilities**

Chair, Personal Computer Working Party (PCWP), School.

**Education**

Ph D, University of Strathclyde, 2007. Subject: Simulation of the effect of e-business on business processes

MSc, University of Strathclyde, 2000. Subject: Management of competitive manufacturing

BSc, Universidad de las Americas - Puebla, 1996. Subject: Chemical and Industrial Engineering

**Professional Positions**

**Academic**

Lecturer, Aston Business School. (May 2007 - Present)

Research Fellow, Aston Business School. (September 2004 - May 2007)

Research Assistant, University of Strathclyde. (September 2002 - May 2003)

Research Assistant, University of Strathclyde. (February 2002 - June 2002)

**Professional**

Materials Engineering, Xerox Mexicana Manufacturing. (June 1997 - September 1999)

## **Professional Memberships**

Member, ACM SIGSIM. (2005 - Present)

Member, Production and Operations Management Society. (2005 - Present)

Member, Operational Research Society. (2004 - Present)

Member, European Association of Operations Management. (2002 - Present)

Member, Institution of Engineering and Technology. (2001 - Present)

Member, Institute of Operations Management.

## **Academic/Professional Contacts**

### **International Experience**

Research, ERGO project, Funded by the European Commission, Various. (2007 - 2010)

Research, ERGO project, Funded by the European Commission, Various. (2007 - 2010)

Presenter & Session Chair, Number of international conferences, Various.

Presenter & Session Chair, Number of international conferences, Various.

Research, Company and university contacts, Mexico.

Research, Company and university contacts, Mexico.

Research, European Project K-FLOW: Knowledge Management in Extended Enterprises, Spain.

Research, European Project K-FLOW: Knowledge Management in Extended Enterprises, Italy.

Research, European Project K-FLOW: Knowledge Management in Extended Enterprises, France.

Research, European Project K-FLOW: Knowledge Management in Extended Enterprises, Spain.

Research, European Project K-FLOW: Knowledge Management in Extended Enterprises, Italy.

Research, European Project K-FLOW: Knowledge Management in Extended Enterprises, France.

Visiting Lecturer, University of Basilicata, Italy.

Visiting Lecturer, University of Basilicata, Italy.

### **Other Professional Activities**

Member, EPSRC-funded "Manufacturing Futures" Network.

Member, EPSRC-funded "Manufacturing Futures" Network.

Member, Intelligent Manufacturing Systems Network of Excellence (IMS-NoE).

Member, Intelligent Manufacturing Systems Network of Excellence (IMS-NoE).

UK Representative, NEXOM (Operations Management Teaching Network).

UK Representative, NEXOM (Operations Management Teaching Network).

## **Consulting**

Academic, LG Davies. (2011)  
Consultancy, LGDavies. (2010)  
Research, William King Ltd.. (2010)  
Consultancy, Experior Technical Services. (2009)  
Consultancy, Sturge. (2007)  
Consultancy, Blairs of Scotland. (2006)  
Research, Scottish Power. (2006)  
Consultancy, Allied Distillers. (2005)  
Consultancy, Fire and Rescue Service. (2005)  
Research/Consultancy, Highland Spring. (2005)  
Research, Office of the Deputy Prime Minister (ODPM). (2005)  
Research, Simpson Labels. (2005)

## **Development Activities Attended**

Continuing Education Program, "Excl Leadership programme," Aston University. (2008)  
Continuing Education Program, "PG Certificate Teaching and Learning in Higher Education,"  
Aston University. (2008)  
Continuing Education Program, "SAP Introductory course," SAP UA (Aston). (2008)  
Continuing Education Program, "SAP Supply Chain Management module," SAP UA  
(Galway). (2008)

# Teaching

## **Teaching Experience**

### **Aston University**

BN2289, Enterprise Resources Planning  
BN3324, Simulation  
BN3372, Supply Chain Management  
BNM804, Enterprise Resource Planning  
BS2225, FOM2/2 Business Game

# Research

## **Research Interests:**

Business Process Simulation  
Supply Chain Management

Performance Measurement  
Emergency Response  
Mass evacuations  
Knowledge Management  
Research Methodology

## Published Intellectual Contributions

### Refereed Journal Articles

- Nagarajan, M., Shaw, D., Albores-Barajas, P. (2010). Informal dissemination scenarios and the effectiveness of evacuation warning dissemination of households: A simulation study. *Procedia Engineering*, 3, 139-152.
- Dey, P., Ho, W., Albores-Barajas, P., Bennett, D. (2009). Technology and business integration (editorial). *Technology Analysis and Strategic Management*, 21(5), 583-586.
- Albores-Barajas, P., Shaw, D. (2008). Government preparedness: Using simulation to prepare for a terrorist attack. *Computers & Operations Research*, 35(6), 1924-1943.
- Albores-Barajas, P., Shaw, D. (2007). Government preparedness: Using simulation to prepare for a terrorist attack. *Computers & Operations Research*, 35(6), 1924-1943.
- Albores-Barajas, P., Ball, P., McBryde, J. C. (2007). Modelling e-business processes: a component-based simulation approach. *International Journal of Agile Systems Manufacturing*, 3(3), 242-262.
- Albores-Barajas, P., Ji, P., Ho, W. (2007). Optimization of physical distribution problem in logistics management. *Industrial Engineering Research – An International Journal of IE Theory and Application*, 4(2), 71-82.
- Albores-Barajas, P., Love, D., Weaver (2006). Use of SCOR in supply chain simulation. *International Journal of Operations and Production Management OR Supply Chain Management*, 26(8), 849-865.
- Albores-Barajas, P., Mendipil, K., Martinez, V., Bititci, U. S. (2005). Measuring and managing performance in extended enterprises. *International Journal of Operations & Production Management*, 25(4), 333-353.
- Albores-Barajas, P., Ball, P. D., MacBryde, J. C. (2005). Simulation process templates for e-business modelling. *International Journal of Simulation and Process Modelling*, 1(03-Apr), 150-160.
- Albores-Barajas, P., Bititci, U. S., Martinez, V., Parung, J. (2004). Creating and managing value in collaborative networks. *International Journal of Physical Distribution and Logistics Management*, 34(3), 251-268.
- Albores-Barajas, P., Benton, H., Tang, N., Love, D., Ball, P., MacBryde, J. (2004). Developing an enterprise simulator to support electronic supply chain for B2B electronic process. *Production Planning and Control*, 15(6), 572-583.
- Albores-Barajas, P., Ball, P., MacBryde, J. (2004). Requirements for modelling e-business processes. *Production Planning and Control*, 15(8), 776-785.

Albores-Barajas, P., Martinez, V., Bititci, U. S., Mendibil, K. (2003). Creating and sustaining competitive advantage through collaborative systems: The What? And The How?. *Production Planning and Control*, 14(5), 410-424.

#### **Authored Books**

Albores-Barajas, P., Bennett, D., Clegg, B., Greasley, A. (2006). *Technology and Global Integration Proceedings of Second European Conference on Management of Technology Aston Business School & IAMOT*. Birmingham: Aston Business School.

Albores-Barajas, P., Bennett, D. J., Clegg, B., Greasley, A. (2006). *Technology and Global Integration Proceedings of Second European Conference on Management of Technology Aston Business School & IAMOT*. Aston Business School.

Greasley, A., Clegg, B., Bennett, D., Albores-Barajas, P. (2006). *Technology and Global Integration Proceedings of Second European Conference on Management of Technology Aston Business School & IAMOT*. Birmingham: Aston Business School.

Bennett, D., Clegg, B., Greasley, A., Albores-Barajas, P. (2006). *Technology and Global Integration Proceedings of Second European Conference on Management of Technology Aston Business School & IAMOT*. Birmingham: Aston Business School.

Greasley, A., Clegg, B., Bennett, D. J., Albores-Barajas, P. (2006). *Technology and Global Integration Proceedings of Second European Conference on Management of Technology Aston Business School & IAMOT*. Aston Business School.

Clegg, B., Bennett, D., Greasley, A., Albores-Barajas, P. (2006). *Technology and Global Integration: Proceedings of Second European Conference on Management of Technology Aston Business School & IAMOT*. Birmingham: Aston Business School.

#### **Book Chapters**

Albores-Barajas, P. (2007). What's on your Ipod?: Using podcasts as a learning aid. *Good Practice Guide in Learning and Teaching Vol 4* (pp. 33-39). Birmingham: Quality Unit Aston Business School.

#### **Official Reports**

Shaw, D., Albores-Barajas, P., Tissington, P., Anson, S., Kailiponi, P., Nagarajan, M. (2010). Evacuation responsiveness by Government Organisations: Brussels interim feedback report. *Crisis Center of the Belgium Government, Belgium*.

Shaw, D., Albores-Barajas, P., Tissington, P., Anson, S., Kailiponi, P., Nagarajan, M. (2010). Evacuation responsiveness by Government Organisations: Bulgaria interim feedback report. *Ministry of the Interior, Bulgaria*.

Shaw, D., Albores-Barajas, P., Tissington, P., Anson, S., Kailiponi, P., Nagarajan, M. (2010). Evacuation responsiveness by Government Organisations: Denmark interim feedback report. *National Operations & Emergency Management Centre, Danish National Police, Denmark*.

Shaw, D., Albores-Barajas, P., Tissington, P., Anson, S., Kailiponi, P., Nagarajan, M. (2010). Evacuation responsiveness by Government Organisations: Hamburg (Germany) interim feedback report. *Ministry of Interior, Hamburg, Germany*.

- Shaw, D., Albores-Barajas, P., Tissington, P., Anson, S., Kailiponi, P., Nagarajan, M. (2010). Evacuation responsiveness by Government Organisations: Iceland interim feedback report. *Department of Civil Protection & Emergency Management, Office of the National Commissioner of Police, Iceland.*
- Shaw, D., Albores-Barajas, P., Tissington, P., Anson, S., Kailiponi, P., Nagarajan, M. (2010). Evacuation responsiveness by Government Organisations: Japan interim feedback report. *Ministry of Interior and Shizuoka Prefecture Government, Japan.*
- Shaw, D., Albores-Barajas, P., Tissington, P., Anson, S., Kailiponi, P., Nagarajan, M. (2010). Evacuation responsiveness by Government Organisations: Poland interim feedback report. *Headquarters of Police, Krakow, Poland.*
- Shaw, D., Albores-Barajas, P., Tissington, P., Anson, S., Kailiponi, P., Nagarajan, M. (2010). Evacuation responsiveness by Government Organisations: Spain interim feedback report. *Cadiz, Spain.*
- Shaw, D., Albores-Barajas, P., Tissington, P., Anson, S., Kailiponi, P., Nagarajan, M. (2010). Evacuation responsiveness by Government Organisations: Sweden interim feedback report. *Swedish Civil Contingencies Agency, Karlstad, Sweden.*
- Shaw, D., Albores-Barajas, P., Tissington, P., Anson, S., Kailiponi, P., Nagarajan, M. (2010). Evacuation responsiveness by Government Organisations: United Kingdom interim feedback report. *The Metropolitan Police and Government for London.*

## **Intellectual Contributions in Submission**

### **Refereed Journal Articles**

- Weaver, M., Albores-Barajas, P., Love, D. (2010). Simulation conceptual modelling for SCM applications: Requirements and concepts. *Supply Chain Management: An International Journal.*
- Nagarajan, M., Albores-Barajas, P., Shaw, D. (2010). Unofficial warning dissemination to neighbours during evacuation: A simulation study. *European Journal of Operations Research.*

## **Other Intellectual Contributions**

### **Refereed Journal Articles**

- Weaver, Love, D., Albores-Barajas, P. (2010). A methodology for the conceptual modelling in supply chain simulation. *Journal TBC.*
- Nagarajan, M., Albores-Barajas, P., Shaw, D. (2010). Emergency warning dissemination: A simulation study. *European Journal of Operational Research.*
- Love, D., Albores-Barajas, P., Ball (2010). Rapid simulation in manufacturing system design. *IIE Transactions.*
- Nagarajan, M., Albores-Barajas, P., Shaw, D. Optimising warning message dissemination. *European Journal of Operational Research.*

## Presentations Given

- Weaver, D., Love, D. M., Albores-Barajas, P., Owen, C., Proceedings of 2008 EUROMA Conference, "Taxonomy of supply chain improvement options characteristics," Groningen.
- Owen, C., Love, Albores-Barajas, P., Proceedings of 2008 OR Society Simulation Workshop, "Selection of simulation tools for improving supply chain performance," Warwickshire.
- Tissington, P., Shaw, D., Albores-Barajas, P., Amasaka, K, Matsui, Y, Matsuo, H & Morita, M (eds) Manufacturing Fundamentals: Necessity and Sufficiency Proceedings of 3rd World Conference on Production and Operations Management, "Evacuation responsiveness by Government Organisations (ERGO): A preparedness toolkit for Europe," Tokyo. (August 5, 2011 - August 8, 2011)
- Shaw, D., Clegg, B., Albores-Barajas, P., Dey, P., Greasley, A., Amasaka, K, Matsui, Y, Matsuo, H & Morita, M (eds) Manufacturing Fundamentals: Necessity and Sufficiency Proceedings of 3rd World Conference on Production and Operations Management, "Supporting security officers: A study of operational performance," Tokyo. (August 5, 2011 - August 8, 2011)
- Ball, P., Love, Albores-Barajas, P., Proceedings of POMS 19th Annual Conference, "Financial evaluation in supply chain design using enterprise simulation," La Jolla, California, USA. (May 9, 2011 - May 12, 2011)
- Albores-Barajas, P., Proceedings of POMS 19th Annual Conference, "Forced product end of life: A research agenda on waste disposal supply chains following major disasters," La Jolla, California, USA. (May 9, 2011 - May 12, 2011)
- Owen, C., Albores-Barajas, P., Greasley, A., Love, D., Operational Research Society 5th Simulation Workshop, "Simulation in the supply chain context: Matching the simulation tool to the problem," Warwickshire. (2010)
- Owen, C., Love, D., Albores-Barajas, P., Greasley, A., SW10 Simulation Workshop of the OR Society, "Simulation in the supply chain context: matching the simulation tool to the problem." (2010)
- Albores-Barajas, P., Proceedings of the International Conference on Emergency Preparedness: The Challenges of Mass Evacuation, "Editor." (September 21, 2010 - September 23, 2010)
- Wright, D., Albores-Barajas, P., Proceedings of the 2010 EurOMA Conference, "Resilience strategies to counteract supply chain risk: a simulation analysis," Porto, Portugal. (June 6, 2010 - June 9, 2010)
- Shaw, D., Albores-Barajas, P., Liu, Y., Nagarajan, M., 2010 Production and Operations Management Conference, "Preparedness for shelter operations management using Discrete Event Simulation," Vancouver. (May 7, 2010 - May 10, 2010)
- Nagarajan, M., Shaw, D., Albores-Barajas, P., 1st International Conference on Evacuation Modelling and Management, "A simulation model for measuring the effectiveness of

- warning message dissemination," The Hague, The Netherlands. (September 23, 2009 - September 25, 2009)
- Nagarajan, M., Shaw, D., Albores-Barajas, P., Proceedings of the 20th Annual Conference of Production and Operations Management Society (POMS), "Simulation model to measure the effectiveness of evacuation warning message dissemination," Orlando. (May 1, 2009 - May 4, 2009)
- Owen, C., Love, D., Albores-Barajas, P., SW08 Simulation Workshop of the OR Society, "Selection of simulation tools for improving supply chain performance." (2008)
- Tissington, P., Shaw, D., Albores-Barajas, P., Operational Research Society Conference, "Evacuation responsiveness by government organisations," York. (September 9, 2008 - September 11, 2008)
- Clegg, B., Shaw, D., Dey, P., Albores-Barajas, P., Greasley, A., POMS World Conference, "Supporting security officers: A study of operational performance," Tokyo, Japan. (August 5, 2008 - August 8, 2008)
- Clegg, B., Shaw, D., Albores-Barajas, P., Dey, P., Greasley, A., Production and Operations Management Society (POMS) World Conference, "Supporting security officers: A study of operational performance," Tokyo. (August 5, 2008 - August 8, 2008)
- Albores-Barajas, P., Inter organisational conference, dstl/Quinetiq. (2007)
- Albores-Barajas, P., Ball, P. D., MacBryde, J. C., Proceedings of the 2007 POMS Conference, "Developing simulation components for supply chain modelling," Dallas, USA. (2007)
- Albores-Barajas, P., Proceedings of the 2007 POMS Conference, "Using podcasting as learning aid in operations management," Dallas, USA. (2007)
- Clegg, B., Bennett, D. J., Greasley, A., Albores-Barajas, P., International Association for Management of Technology (IAMOT), "Technology and global integration," Aston Business School, Aston University, Birmingham. (September 10, 2006 - September 12, 2006)
- Albores-Barajas, P., Love, D. M., Weaver, M., Stone, J., Benton, H., Technology and Global Integration Proceedings of Second European Conference on Management of Technology Aston Business School & IAMOT, "An evaluation of SCOR modelling techniques and tools," Aston Business School, Aston University, Birmingham. (September 10, 2006 - September 12, 2006)
- Weaver, M., Love, D. M., Albores-Barajas, P., Stone, J., Moving up the Value Chain Proceedings of the European Operations Management Association Conference, "Towards the development of a supply chain strategy evaluation methodology," Glasgow. (June 2006)
- Albores-Barajas, P., Shaw, D., Moving up the Value Chain. European Operations Management Association Conference, "Operations management in preparation to terrorist attacks: a simulation analysis of mass decontamination," Glasgow. (June 2006)



- Albores-Barajas, P., Shaw, D., Steiger, N M, Armstrong, F B & Joines, J A (eds)  
 Proceedings of Winter Simulation Conference, "Responding to terrorist attacks and natural disasters: A case study using simulation," Orlando. (December 2005)
- Albores-Barajas, P., Ball, P. D., MacBryde, J. C., Proceedings of the 2nd World POM Conference & 15th Annual POM Conference, "A study on the value of re-usable simulation components for the analysis of e-business processes," Cancun, Mexico. (2004)
- Albores-Barajas, P., Ball, P. D., Benton, H., Drake, P., Love, D., MacBryde, J., Tang, N., European Forum on Market-Driven Supply Chains: Creating the Responsive Supply Chain, "Developing an enterprise simulator to support a supply chain design methodology," Cranfield. (2003)
- Ball, P. D., Albores-Barajas, P., MacBryde, J. C., Proceedings of 18th International Conference CAPE 2003: Computer-aided Production Engineering, "Using simulation to evaluate e-business process implementations," Edinburgh. (2003)
- Martinez, V., Albores-Barajas, P., Proceedings of 3rd International Workshop on Performance Measurement IFIP WG 5.7 Special Interest Group on Performance Measurement, "Performance indicators for the evaluation and control of research in OM: the qualitative research case," Bergamo, Italy. (2003)
- Ball, P. D., MacBryde, J. C., Albores-Barajas, P., Proceedings of 6th International Conference on Industrial Engineering and Production Management (IEPM), "Using simulation to validate performance measure hierarchies in supply chains," Porto, Portugal. (2003)
- Albores-Barajas, P., Martinez, V., Bititci, U. S., Proceedings of the 10th ISPE International Conference on Concurrent Engineering: Research and Applications, "A proposed extended enterprise architecture and its implications for knowledge management," Madeira, Portugal. (2003)
- Albores-Barajas, P., Ball, P. D., MacBryde, J. C., Proceedings of the 3rd International Workshop on Performance Measurement, "Supply chain performance measurement hierarchies: validation through simulation," Bergamo, Italy. (2003)
- Albores-Barajas, P., Ball, P. D., Benton, H., Drake, P., Love, D., MacBryde, J., Tang, N., International Conference on Managing Innovative Manufacturing, "Developing an enterprise simulator to support a supply chain design methodology," Aalborg, Denmark. (September 22, 2003 - September 23, 2003)
- MacBryde, J. C., Albores-Barajas, P., Ball, P. D., One World? One View of OM? The challenges of integrating research and practice Euroma Poms Conference Proceedings SGE Ditoriali: Padua, Italy, "Business process change in manufacturing companies implementing E-Business," Cernobbio, Lake Como, Italy. (June 16, 2003 - June 18, 2003)
- Bititci, U. S., Mendibil, K., Martinez, V., Albores-Barajas, P., One World? One View of OM? The challenges of integrating research and practice Euroma Poms Conference Proceedings SGE Ditoriali: Padua, Italy, "Measuring and managing performance in extended enterprises," Cernobbio, Lake Como, Italy. (June 16, 2003 - June 18, 2003)

- Martinez, V., Albores-Barajas, P., One World? One View of OM? The challenges of integrating research and practice Euroma Poms Conference Proceedings SGE Ditoriali: Padua, Italy, "Qualitative research in OM: Criteria for evaluation enterprises," Cernobbio, Lake Como, Italy. (June 16, 2003 - June 18, 2003)
- Albores-Barajas, P., Ball, P. D., MacBryde, J. C., Bititci, U. S., Advanced Production Management Systems Proceedings of the 2002 IFIP W.G. 5.7 Conference, "A comparative study of the simulation analysis of e-business implementation in manufacturing companies," Eindhoven, Netherlands. (2002)
- Bititci, U. S., Martinez, V., Albores-Barajas, P., Advanced Production Management Systems Proceedings of the 2002 IFIP W.G. 5.7 Conference, "Creating and sustaining competitive advantage through collaborative systems: The what? And the how? companies," Eindhoven, Netherlands. (2002)
- Albores-Barajas, P., Ball, P. D., MacBryde, J. C., Manufacturing Companies: Is Simulation Useful Proceedings of the 2002 IEEE International Engineering Management Conference, "Generic business process models for e-business," Cambridge. (2002)
- Coscia, E., Maiza, M., Gauberti, C., Arana, J. M., Zufiaurre, M., Meo, F., Galassini, M., Leveaux, J. M., Smithers, T., Bititci, U. S., Proceedings of the 2002 ebusiness and eWork Conference, "K-FLOW: Knowledge management in the extended manufacturing enterprise," Prague, Czech Republic. (2002)
- Ball, P. D., Albores-Barajas, P., MacBryde, J. C., e-Manufacturing and e-Business Integration Proceedings of MIM2002 Managing Innovative Manufacturing, "Tools for assessing the impact of e-business processes," University of Milwaukee: USA Milwaukee, Wisconsin. (September 9, 2002 - September 11, 2002)
- Albores-Barajas, P., Ball, P. D., MacBryde, J. C., "Assessing the impact of electronic commerce in business processes: A simulation approach," Operations Management and the New Economy Proceedings of 9th International European Operations Management Conference Copenhagen Business School, Denmark Copenhagen. (June 2, 2002 - June 4, 2002)

## Service

### Consult

- Academic, LG Davies. (2011)
- Consultancy, LG Davies. (2010)
- Research, William King Ltd.. (2010)
- Consultancy, Experior Technical Services. (2009)
- Consultancy, Sturge. (2007)
- Consultancy, Blairs of Scotland. (2006)
- Research, Scottish Power. (2006)

Consultancy, Allied Distillers. (2005)

Consultancy, Fire and Rescue Service. (2005)

Research/Consultancy, Highland Spring. (2005)

Research, Office of the Deputy Prime Minister (ODPM). (2005)

Research, Simpson Labels. (2005)