

**VIII Workshop "Social Sciences meet Lean and BIM", 8th and 9th November 2021
Final Program**

Day 1 – 8/11/2021

9:30pm Opening remarks	
9:45 – 10:30 am – Keynote Presentation 1	
Algan Tezel, Aston University (UK)	BLOCKCHAIN IN CONSTRUCTION: CONNECTIONS WITH THE LEAN PHILOSOPHY
Discussion	
10:30 – 11:00 am - BIM and Lean Implementation	
I. Iordanova and D. Forgues, ETS (Canada)	THE VARIOUS FACES OF INNOVATION: THE BIM & LEAN JOURNEY OF A CANADIAN CONSTRUCTION COMPANY
B. Pedó, D. Viana, C. Formoso, UFRGS (Brazil), P. Tzortzopoulos, A. Tezel, L. Koskela, Univ. Huddersfield (UK)	VISUAL MANAGEMENT SUPPORTING DESIGN MANAGEMENT IN CIVIL ENGINEERING PROJECTS
Discussion	
11:00 am	Break
11:15 – 11:45 am - BIM and Lean Implementation	
L. C. Durante, R. N. Blumenshein, V. F. Lira, A. C. O. Miranda, UFMT (Brazil)	MENTAL MODEL OF COLLABORATORS INVOLVED IN DESIGN PROJECTS OF CIVIL CONSTRUCTION AND OBSTACLES TO IMPLEMENT BIM IN THE BRAZILIAN REALITY
C. Bohórquez Arango, D. Martín Rey, J. L. Ponz-Tienda, J. F. Suarez Gutiérrez, J. P. Romero-Cortés, M. A. Trujillo Peña, Univ. de los Andes (Colombia)	BIM & LEAN IMPLEMENTATION IN A LARGE CONSTRUCTION COMPANY IN COLOMBIA; CHALLENGES AND LESSONS LEARNED
Discussion	
11:45– 12:15 am - BIM and Sustainability	
Maria Antonietta Esposito, F. Bosi, C. Ferraro, Univ. of Florence (Italy)	EXPLORING THE SOCIAL CONNECTIONS BETWEEN DIGITAL DESIGN AND INNOVATION IN TRAINING METHODS
G. M. Passos Neto, E. C. Rabbani, R. Valdez-Vasquez, Univ. de Pernambuco (Brazil)	THE POTENTIAL TO USING BIM TO ENHANCE SOCIAL SUSTAINABILITY INDICATORS
Discussion	
12:15 Am	Lunch Break

2:00 – 2:45 pm - Keynote Presentation 2

Olli Seppanen, Aalto University (Finland)	THE ROLE OF DIGITAL SITUATION AWARENESS IN SOLVING THE PRODUCTIVITY PROBLEM OF CONSTRUCTION INDUSTRY
Discussion	

2:45 – 3:15 pm - Production management

B. F. Silveira, D. B. Costa, UFBA (Brazil)	DEVELOPMENT OF A DIGITAL ENVIRONMENT ON SITE TO SUPPORT THE PRODUCTION PLANNING AND CONTROL WITH THE USE OF 4D BIM
K. B. Barth, C. T. Formoso, UFRGS (Brazil)	DEVELOPMENT OF PERFORMANCE MEASUREMENT SYSTEMS FOR LEAN IMPLEMENTATION PROGRAMS
Discussion	

**3:15
pm** Break

3:30 – 4:15 pm - Production management

F. M. R. Andrade, C. N. Biotto, S. M. B. Serra, UFSCar (Brazil)	USE OF 5D BIM FOR COST ESTIMATING IN A PUBLIC PROJECT
L. A. Correa, F. F. Marchiori, J.P.M. de Abreu, P. Jehel, UFSC (Brazil)	A CONTRIBUTION TO KNOWLEDGE OF WORKFLOW STABILIZATION THROUGH DAILY WORK PACKAGE DEVELOPMENT WITH 4D BIM
J. P. P. Vieira, T. G. Amaral, UFG (Brazil)	RELATIONSHIPS BETWEEN LEAN AND BIM IN THE CONTEXT OF PRODUCTION AND DESIGN COORDINATION: A CASE STUDY
Discussion	

4:15 – 4:45 pm - Facilities management

A. A. Sales, R. N. Paiva, R. C. Ruschel, UNICAMP (Brazil)	POST-OCCUPANCY EVALUATION INTEGRATED TO BIM FOR PROVIDING SOCIAL MEANING: HOW CAN IT BE DONE?
T. Algayer, F. F. Marchiori, P. Jehel, L. A. Correa, UFSC (Brazil)	INTEGRATION OF FM INFORMATION FOR EXISTING PUBLIC BUILDINGS USING BIM
Discussion	

Day 2 – 9/11/2021

10:00 – 11:00 am - Client requirement management

J. Soliman Jr., P. Tzortzopoulos, Univ. Huddersfield (UK), M. Kagioglou, West Sydney Univ. (Australia)	AN EXPLORATION TOWARDS INTEGRATED HEALTHCARE DESIGN AND ASSESSMENT
A. S. Barbosa, D. B. Costa, UFBA (Brazil)	AUTOMATIC VERIFICATION OF EMERGENCY EXITS DESIGN STANDARDS USING BUILDING INFORMATION MODELING (BIM) AND VISUAL PROGRAMMING LANGUAGE

Discussion	
N. Ransolin, T. A. Saurin, C. T. Formoso, UFRGS (Brazil)	MODELLING BUILT ENVIRONMENT REQUIREMENTS FOR RESILIENT PERFORMANCE IN HEALTHCARE FACILITIES: A BIM AND FRAM INTEGRATED APPROACH
J. P. Baldauf, C. T. Formoso, UFRGS (Brazil), P. Tzortzopoulos, Univ. of Huddersfield (UK)	A SET OF CONSTRUCTS TO MODELLING CLIENT REQUIREMENTS IN HEALTHCARE PROJECTS
Discussion	
11:00 am	Break
11:15 – 12:00 am - Project delivery systems	
A. Johansen, B. T. Kalsaas, P. Wondimu, T. O. Malvik, Univ. of Agder (Norway)	COLLABORATION IN DESIGN AND PROJECT DELIVERY MODELS – ROAD CONSTRUCTION
A. Johansen, B. T. Kalsaas, T. O. Malvik, Univ. of Agder (Norway)	LEAN AND OPPORTUNITY DRIVEN MANAGEMENT IN DESIGN AND CONSTRUCTION
D. C. Hamerski, C. T. Formoso, E. L. Isatto, UFRGS (Brazil)	PLANNING AND CONTROL OF CONSTRUCTION PROJECTS IN A MULTI- PROJECT ENVIRONMENT BASED ON LEAN AND AGILE PRINCIPLES
Discussion	
12:00 am	Lunch Break
2:00 – 2:45 pm - Keynote Presentation 3	
Paz Arroyo, DPR (USA), Glenn Ballard, University of California, Berkeley, Stan Chiu.	CONFLICTING DESIGN REQUIREMENTS
Discussion	
2:45 – 3:15 pm - Lean Design	
H. Chbaly, D. Forgues, ETS (Canada)	LEAN-LED DESIGN: A CANADIAN CASE STUDY
Q. A. Nguyen, L. Koskela, P. Tzortzopoulos, University of Huddersfield (UK)	APPLICABILITY OF A NEW LEAN METHOD IN HIGHWAYS DESIGN PROCESS IMPROVEMENT
Discussion	
3:15 pm	Break
3:30 – 4:30 pm - Lean Design	
Z. Giménez, C. Mourgues, L. F. Alarcón, and H. Mesa, PUC (Chile)	UNDERSTANDING THE VALUE GENERATION IN TRADITIONAL BUILDING DESIGN PROCESS



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R. F. Herrera, Universidad Católica de Valparaíso; C. Mourgues, L. F. Alarcón, PUC (Chile); E. Pellicer, Univ. Politécnica Valencia (Spain)	EXPLORING CAUSALITY AMONG LEAN DESIGN MANAGEMENT PRACTICES AND BIM USES THROUGH QUALITATIVE COMPARATIVE ANALYSIS (QCA)
Discussion	
M. G. Mandujano, Maro Consulting (Mexico), C. Mourgues, L. F. Alarcon, PUC (Chile), L. Koskela, Univ. of Huddersfield (UK)	UNDERSTANDING THE INTERACTION BETWEEN VIRTUAL DESIGN, CONSTRUCTION AND LEAN CONSTRUCTION
T. F. Falcão, M. T. M. Carvalho, and M. C. G. O. Brandstetter, UFG (Brazil)	LEAN CONCEPTS AND PRACTICES APPLIED TO THE BIM CYCLE IN THE DESIGNING PHASE
Discussion	