



**Editors: Vladimir Vasek, Yuriy S. Shmaliy, Denis Trcek,
Nobuhiko P. Kobayashi, Ryszard S. Choras, Zbigniew Klos**

Recent Researches in Energy, Environment, Entrepreneurship, Innovation

**International Conference on Energy, Environment,
Entrepreneurship, Innovation (ICEEEI '11)**

Lanzarote, Canary Islands, Spain, May 27-29, 2011



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Plenary Lecture 1

Poznan University of Technology research works on LCA



Zbigniew Klos

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POLAND

Abstract: The research works done in the field of Life Cycle Assessment (LCA) at Poznan University of Technology (PUT) are overviewed. There is proposed the list of hints for designers of pro-environmental machines and appliances..

Brief Biography of the Speaker:

Zbigniew KLOS - Professor at Poznan University of Technology (PUT), Poland

1972 - M.Sc. in Mechanical Engineering

1979 - Ph.D. – Assist. Professor

1990 - D.Sc. (habilitation)

1994 - Associate Professor

since 2002 - Full Professor

Main scientific interests:

- (1) development of Life Cycle Assessment (LCA) methodology
- (2) ecological criteria of technical objects
- (3) quality - TQM introduction to Polish enterprises
- (4) corporate culture models
- (5) innovation

Positions held:

1993-1996 – Vice-Dean for Education at the Faculty of Machines and

Transportation, PUT

1999-2005 – Vice-Dean for Development and International Co-operation at the Faculty of Machines and Transportation, PUT

since 2002 – member of Editorial Board of International Journal of Life Cycle Assessment (LCA)

since 2008 – Editor of Eco-Engineering (LCA), Scientific Problems of Machines Operation and Maintenance (Polish quarterly in English)

since 2008 – Vice-Dean for Development and International Co-operation at the Faculty of Machines and Transportation, PUT (again)

Main LCA related publications:

1. Klos Z., Kurczewski P., Laskowski G.: Anticipative environmental valuation of technical realizations for machines and appliances. Wyd. Politechniki Poznańskiej, Poznan 2000, pp.. 222
2. Klos Z., Introduction of Life Cycle Management to organisations. LCA and other supporting tools. Wissenschaftliche Beiträe, TFH Wildau, 2002, Nr. 1
3. Klos Z., Ecobalancial Assessment of Chosen Packaging Processes in Food Industry. International Journal of LCA, 2002, vol.7, No. 5
4. Kurczewski P., Klos Z., Kasprzak J., LCA related analysis of beer distribution system. 11th LCA case Studies Symposium SETAC-Europe, Lausanne, 2003
5. Kurczewski P., Klos Z., Kasprzak J., Implementation of life cycle thinking and LCA in the creation of packaging system. 12th SETAC Europe LCA Case Studies Symposium. SETAC, Bologna 2005
6. Klos Z., Kurczewski P., Kasprzak J., LCA characterization of machines and devices [in Polish], Wyd. Politechniki Poznańskiej, Poznan 2005, pp. 394
7. Klos Z., Kurczewski P., Development of LCA centres in Poland, Zagadnienia Eksploatacji Maszyn, 2009, vol. 44, No. 2.