

Bergische Universität Wuppertal

Fachbereich D – Architektur, Bauingenieurwesen, Maschinenbau, Sicherheitstechnik

Fachgebiet Produktsicherheit und Qualitätswesen

Technická Univerzita Košice

Strojnícka fakulta – Ústav bezpečnosti, kvality a environmentalistiky

Katedra bezpečnosti a kvality produkcie

From Integrated Management Systems towards Generic Management Systems – Approaches from Slovakia and Germany

J. Sinay, P. Winzer (Ed.)

Authors (alphabetical order)

- | | |
|------------------------|------------------------|
| - Balážiková, Michaela | - Nagyová, Anna |
| - Belyová, Lucia | - Oravec, Milan |
| - Bredtmann, Jennifer | - Pačaiová, Hana |
| - Glatz, Juraj | - Riekhof, Florian |
| - Gorzás, Michal | - Sloboda, Aurel |
| - Horák, Bohumil | - Sloboda, jun., Aurel |
| - Jacková, Jana | - Schlund, Sebastian |
| - Kopas, Melichar | - Schulze-Bramey, Ulf |
| - Kotianová, Zuzana | - Tomašková, Marianna |
| - Majer, Ivan | - Tompoš, Adrián |
| - Markulík, Štefan | - Treštíková, Blanka |
| - Mokrišová, Alena | - Vogt, Eva |

Kolloquien zum Qualitätsmanagement

Band 3/2009

J. Sinay, P. Winzer, (Ed.)

**From Integrated Management Systems towards
Generic Management Systems – Approaches from
Slovakia and Germany**

Shaker Verlag
Aachen 2009

Bibliographic information published by the Deutsche Nationalbibliothek

The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at <http://dnb.d-nb.de>.

Copyright Shaker Verlag 2009

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publishers.

Printed in Germany.

ISBN 978-3-8322-8508-1

ISSN 1611-6267

Shaker Verlag GmbH • P.O. BOX 101818 • D-52018 Aachen

Phone: 0049/2407/9596-0 • Telefax: 0049/2407/9596-9

Internet: www.shaker.de • e-mail: info@shaker.de

From Integrated Management Systems towards Generic Management Systems – Approaches from Slovakia and Germany

Preface

The present book is a result of a workshop, which took place at the TU Košice in Slovakia in March 2008. Both the staff of the department of Safety and Quality from Prof. Sinay, TU Košice, and the staff of the department of Product Safety and Quality Engineering from Prof. Winzer, BU Wuppertal, discussed together about solution approaches concerning the turn from an integrated to a Generic Management System. During the presentations and discussions it became apparent that the diversity of requirements, which are nowadays being demanded on a Management System, cannot be integrated additively. The slovakian and german colleagues agreed and still agree in the fact that there is only one Management System within a company. Hence the requirements on a Management System must at first be recorded, compared and evaluated, before the company's objectives can be derived. Therewith the company possesses a „general“ concept for the design of its operational and organizational structure. In this context domain experts speak of a Generic Management System. The Generic Management System meets the requirements and complies with the design of the operational and organizational structure. Due to the fact that requirements change over time, i.e. are dynamic, the enterprise needs appropriate tools, in order to master this multiplicity of provision. In the course of the workshop some tools, which are traditionally associated with Quality Management, just like FMEA or QFD, to mention only but a few, have been examined in terms of their transferability onto the Generic Management approach. Apart from that, also new tools have been introduced and discussed, which could support the Generic-Management-approach, just like the Iffa (Information-Flow Analysis) or approaches for competence analysis and - development. The articles, which have been collected in this book and which have been arranged in alphabetical order, are the first approaches on the way from an integrated to a Generic-Management-system. In the near future, these approaches shall be further elaborated on by the department staff of both Prof. Sinay and Prof. Winzer.

Košice/Wuppertal, July 2009

Editors:

Petra Winzer

Juraj Sinay

Contact via:



Bergische Universität Wuppertal
FB D – Abt. Sicherheitstechnik
Fachgebiet Produktsicherheit und Qualitätswesen
Prof. Dr.-Ing. habil. Petra Winzer
Gaußstraße 20, 42119 Wuppertal
E-Mail: fgproqu@uni-wuppertal.de



Technická univerzita Košice
Strojnícka fakulta - Ústav bezpečnosti, kvality a environmentalistiky
Katedra bezpečnosti a kvality produkcie
Dr.h.c. mult. prof. Ing. Juraj Sinay, DrSc.
Letná 9, 041 78 Košice
E-Mail: kbakp.sjf@tuke.sk

Contents

Methodology of risk evaluation of noise Influence for cars	9
Michaela Balážiková, Košice	
Cultural factors as a strategic aspect for international companies and networks – Germany vs. Slovakia	17
Belyová Lucia, Bredtmann Jennifer, Wuppertal	
Safety of critical infrastructure - water	27
Juraj Glatz, Milan Oravec, Košice	
In-pipe Minimachine	33
Michal Gorzás, Košice	
Technical diagnostic like input directing to reliability of machines and equipments	39
Jana Jacková, Košice	
Sources with below-the-threshold quantities of hazardous substances	45
Zuzana Kotianová, Košice	
System approach to occupational safety and health in light of European strategy	49
Ivan Majer, Košice	
Quality management system in higher education area	59
Štefan Markulík, Anna Nagyová, Alena Mokrišová, Košice	
Maintenance management as a basic tool for safety prevention	65
Hana Pačaiová, Košice	
The need of a requirements oriented development in the field of intralogistics	71
Florian Riekhof, Wuppertal	
Research and design of vehicle with hydrogen driving technology from the point of view of car frame safety	81
Aurel Sloboda, Bohumil Horák, Adrián Tompoš, Aurel Sloboda, jun., Melichar Kopas, Košice	
A Database-driven approach to integrate requirements into the product development process	87
Sebastian Schlund, Wuppertal	

Customer Satisfaction in local passenger transport considering safety sensation.....	97
Ulf Schulze-Bramey, Wuppertal	
Firemen interventions at road traffic accidents	109
Marianna Tomašková, Melichar Kopas, Košice	
Crack detection in cylinder head of piston combustion engines	113
Blanka Treštíková, Košice	
Competence-circle - assessing competences in a process-oriented way.....	117
Eva Vogt, Wuppertal	