

ISA Food and Pharmaceutical Industries Division Symposium 2016 (FPID)

Food and Pharmaceutical Futures – Technology
and Innovation for 2020 Global Demands

ISA Volume 512

Cork, Ireland
14 March 2016

ISBN: 978-1-5108-3481-1

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2016) by International Society of Automation - ISA
All rights reserved.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact International Society of Automation - ISA
at the address below.

International Society of Automation - ISA
67 Alexander Drive
Research Triangle Park, NC 27709 USA

Phone: (919) 549-8411
Fax: (919) 549-8288

info@isa.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Automation Services for the 21st Century	1
<i>K. Starr</i>	
Alarm Management Implementation on a Plant	11
<i>E. O'Connor</i>	
Alarm Management Reflections	19
<i>N. Sands</i>	
Alarm System Performance Metrics	28
<i>K. Van Camp</i>	
Automation Delivery – Large Scale Facility: Case Study On Delivery Of Large Scale Vaccines Project In Belgium And The Delivery Of The Automation Solution For The Project	46
<i>N/A</i>	
Irish Manufacturing and It's Readiness for Industry 4.0	57
<i>A. Lynch</i>	
Serialisation: GS1 Standards in Healthcare	63
<i>S. Duggan</i>	
The Science Of Manufacturing: Making OEE Work As A Practical Business Performance Metric For Your Plant	78
<i>A. Stone</i>	
Food Safety: Five Steps to Digitize and Improve Your Food Safety Program	99
<i>J. Whyte</i>	
Serialization: Implementation Challenges & Business ROI Opportunities	112
<i>J. Whyte</i>	
Preparing for a Data Integrity (DI) Audit	124
<i>G. Wright</i>	
Using Data to Optimize the Product Lift Cycle	136
<i>P. McKenzie, M. Hooybergs, T. Murphy, A. Fermier, C. Strain</i>	
ISA FPID International Automation & Control Symposium: IT/Automation for a Bio-Pharma Facility in a Green Field State	147
<i>N/A</i>	
Mitigating Cybersecurity Risk to Life Science Manufacturing	159
<i>J. LaBonty</i>	
Prototyping Control Systems With ISA-S88/S95: What Is Prototyping Anyway? Whats In It For My Project? Prototyping As A Catalyst For 'Agile'	169
<i>C. Garvey</i>	
How the Internet of Things is Driving Track & Trace	178
<i>R. Jones</i>	
Securing your IP in the OT Environment	191
<i>A. Meijer</i>	
Securpharm-System in Germany – Lessons Learned	211
<i>P. Koop</i>	
Serialisation End User View	218
<i>N/A</i>	
The Business Of Buying Serialisation: From A Suppliers Perspective	228
<i>N/A</i>	
Author Index	