Innovative Manufacturing 2017

Topical Conference at the 2017 AIChE Spring Meeting and 13th Global Congress on Process Safety

San Antonio, Texas, USA 26 – 30 March 2017

ISBN: 978-1-5108-4136-9

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© (2017) by AIChE All rights reserved.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact AIChE at the address below.

AIChE 120 Wall Street, FL 23 New York, NY 10005-4020

Phone: (800) 242-4363 Fax: (203) 775-5177

www.aiche.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

SMART MANUFACTURING PANEL DISCUSSION	1
Lloyd Cosgrove, Jim Davis, Pete Sharpe	
(73A) VALUE OF MODERN AUTOMATION IN PROCESS INDUSTRIES	2
Laurie Ben	
(73B) AUTOMATIC CONTROL OF POLYMER MOLECULAR WEIGHT DURING FREE	
RADICAL POLYMERIZATION	12
Terry McAfee, Natalie Leonardi, Rick Montgomery, Julia Siqueira, Thomas Zekoski, Michael F. Drenski, Wayne	
F. Reed	
(73C) AUTOMATIC, SIMULTANEOUS CONTROL OF POLYMER COMPOSITION AND	
MOLECULAR WEIGHT DURING COPOLYMER SYNTHESIS	13
Terry McAfee, Rick Montgomery, Wayne F. Reed, Thomas Zekoski, Aide Wu	
(73D) GOOD PROCESS CONTROL IMPROVES PLANT AVAILABILITY AND RELIABILITY	19
James Beall IV	
(101A) CHOOSING AND USING TOLLERS TO MANUFACTURE	31
Michael Doll, Jonathan H. Worstell, Lori Pretzer, Eric Doll	
(101B) TO TOLL OR NOT TO TOLL: THAT IS THE QUESTION	32
Jonathan H. Worstell	
Author Index	