

Management Division 2014

Core Programming Area at the 2014 AIChE Annual Meeting

Atlanta, Georgia, USA
16-21 November 2014

ISBN: 978-1-5108-1263-5

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© (2014) by AIChE
All rights reserved.

Printed by Curran Associates, Inc. (2015)

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: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

(66a) Innovation-Working with People and Managing Projects	1
<i>Jack Hipple, Eldon R. Larsen</i>	
(154a) Strategies for Evaluating Intellectual Property Rights Prior to Product Launch	5
<i>Jennifer Roscetti</i>	
(154b) Utilization of the Project Management Contractor (PMC) Approach	6
<i>Stephen L. Cabano</i>	
(154c) The Excitement of Testing and Balancing in the Commissioning Phase of a Project	14
<i>Christina M. Borgese</i>	
(187a) Introduction to Project Management Fundamentals	15
<i>Eldon R. Larsen</i>	
(187b) Entrepreneurial Chemical Mega Projects with Parallel Path Process Development	16
<i>Marc Privitera</i>	
(187d) Becoming a Real Team to Accomplish Projects	17
<i>Eldon R. Larsen</i>	
Exploiting Polymer-Nanoparticle Interactions to Create a Hydrogel with Biomedical Applications	18
<i>Jessica Greer</i>	
Validation of High Throughput Electrochemical Gas Sensing Screening System	19
<i>Zixuan Wang</i>	
Long-Range Correlations in Liquid Water	29
<i>Nancy Figueroa</i>	
Frictional Study of Polyethylene Glycol Monolayers on Silica Substrate	30
<i>Nadiyah Nordin</i>	
A Machine-Learning Model to Predict Activation Energies of Hydrogenation Reactions	31
<i>Jack McCullough</i>	
Microscopic Modeling of the Self Assembly of Poly(ethylene oxide)-Poly(propylene oxide)- Poly(ethylene oxide) (PEO-PPO-PEO) Block Copolymers: Critical Micelle Concentrations	32
<i>Alexander Colville</i>	
(221a) Recommendations for Legislative Actions to Reduce Carbon Emissions in the Electricity Production Sector	33
<i>Sam White</i>	
(351a) Turning the Big Idea into a Startup	61
<i>Dan Watkins</i>	
(351c) Starting an Small Engineering Consulting Business – the 10 Year Anniversary of a Startup Company	62
<i>Russell F. Dunn</i>	
(351d) The Art of the Mass Balance: The Cultural Tools of Entrepreneurial Chemical Startups	63
<i>Christina M. Borgese</i>	
(408d) The Personal and Family Side of Starting an Independent Business	64
<i>Jack Hipple</i>	
(408a) Aligning Innovation, Patent Strategies, and Business Models	66
<i>Barbara Yuill</i>	
(408b) Building an Excellent Entrepreneurial Team	67
<i>Marc Privitera</i>	
(408c) How to Generate Revenue from Your Technology: Strategies for Licensing Your Intellectual Property	68
<i>Jennifer Roscetti</i>	
(351f) Designing Winning Boards for Your Startup	69
<i>John Finn</i>	
(408e) The I-Corps Program at NSF (and NIH)	79
<i>Keith McGreggor</i>	
Author Index	