

2015

Materials & Manufacturing Summer Teachers' Institute

“How Things Are Made”

Networking with Local Industry to Bring Ideas Back to Your Classroom



July 28, July 29, and July 30

8:30am – 4:45pm

Presented by:

NHMA, SCSU, CRISP, So. CT. Chapt. ASM, and Platt Tech HS

Agenda

Tuesday, July 28, 2015

Southern Connecticut State University

Introduction and Welcome, Continental breakfast & networking

8:30 – 9:00	Dr. Stephen Hegedus, Dean, School of Education Kris Lorch – Alloy Engineering Workforce Chair NHMA Video/photo releases Dr. Christine Broadbridge SCSU & CRISP Bob Klancko, NHMA NHMA/ASM – participant introductions	Jennings, Room JE109
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“Building Bridges - Materials, Manufacturing and the K-12 Curriculum”

9:00 – 9:20	Christine Broadbridge - SCSU/CRISP	Intro to Materials Science and Engineering with NGSS Connections
9:30 – 10:30	Tom Doggart, So, CT Chapt. ASM	Hands-on activity – Reactivity of Metals
10:30 – 11:30	George Muench, So, CT Chapt. ASM	Hands-on activity – Materials in Action

Networking Lunch

11:30 – 1:00	Welcome Dr. Dianna Wentzell, CT Commissioner of Education Dr. Robert Forbus , Assistant to the Dean & Associate Prof. of Marketing Bobs Challenge #1	School of Business, room 020B
12:15 – 12:40	Jim Gildea – Bigelow Tea	A Practitioners Perspective
12:40 – 12:50	Special Achievement Award – Peter Dimoulas	

“Industry Product Demonstrations – How STEM is involved in their production.”

1:00 – 1:20	Yvonne Klancko – Klancko & Klancko	Module development/curriculum overview
1:20 – 2:20	Larry Smith – Bridgeport Fittings	From a hunk of Zinc to a cast/machined product
2:20 – 3:20	David Williams – Holo-Krome	From a steel cylinder to a high tech bolt/screw
3:20 – 4:20	CCSA – 2013, 2014 M&M participants	M&M implementation examples

Safety at the tours and Platt Tech

4:20 – 4:40	Bob Klancko	
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Wednesday, July 29, 2015

Manufacturing Plant Tours

7:30 am	Sign in load SCSU shuttles	Jennings Hall, JE109
7:45 am	Leave SCSU	
8:00 am	Company 1	71 Leeder Hill Road, Hamden
	Leed Himmel – David Goldfarb <i>"The extrusion of Aluminum billets"</i>	
9:45 am	Leave Leed Himmel	
10:00 am	Company 2	110 Sargent Drive, New Haven
	Assa Abloy – Doug Bell <i>"How a lockset is made"</i>	Sara Bellefleur, Materials Manager Andrew Thayer, Quality Manager
11:45 am	Lunch (Assa Abloy)	110 Sargent Drive, New Haven
	Meet the CEO: Kathy Saint – Schwerdtle Stamp Bob's Challenge #2	A Practitioners Perspective
12:45 am	Leave Assa Abloy	
1:00 pm	Company 3	360 James St., New Haven
	Chabaso Bakery – Tim Cunningham <i>"Bread is a material"</i>	
2:45 pm	Leave Chabaso Bakery	
3:00 pm	Company 4	114 Boston Post Road, West Haven
	Lighting Quotient – Lenore Wszolek <i>"Innovative lighting designs"</i>	
4:45 pm	Leave Lighting Quotient	

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Thursday, July 30, 2015

Platt Tech High School

Breakfast

8:00 – 8:20 **Welcome** – Scott Zito – Principal, Platt Tech

Platt Tech High School
600 Orange Ave, Milford, CT 06461

Overview – Christine Broadbridge

Bob Klancko

Create your own product!

8:30 – 11:45 Dave Tuttle & Platt Tech Students

Manufacturing using materials forming equipment

Hands-on activities and
demonstrations

11:45 – 12:00 Group Photo

Lunch

12:00- 1:00 Christine Broadbridge
Bob Klancko

CRISP website and resources

Invited speakers:

Theresa Conroy & Gayle Slossberg – Education
Committee

A Legislative Perspective

Jerry Clupper, NHMA Executive Director – Thank you

Working Groups

1:00 – 4:00 Yvonne Klancko

Create a demonstration/curricular module for your
classroom based on the past 2.5 days!

Share your ideas

Day 1 presenters - mentors:

David Williams

Larry Smith

Tom Doggart

George Muench

CCSA

Wrap Up

4:00 pm Post surveys – Carol Jenkins