



MIT Supply Chain

M A N A G E M E N T

Research Fest 2013

Agenda

May 22-23

Massachusetts Institute of Technology
Center for Transportation & Logistics

Wednesday 22 May 2013 – Faculty Club Dining Room 5

8:30 *Registration & Continental Breakfast*

9:00 *Welcome & Introductions*

All Presentations are 20 minutes unless indicated.

9:15 **Session I**

Project: *Using Big Data for Decisions in the Agricultural Supply Chain*

Sponsor: Agricultural Chemical Company

Students: Derik Smith and Satya Dhavala

Advisor: Dr. Bruce Arntzen

Project: *Modeling the Tradeoff between Inventory and Capacity to Optimize Return on Assets in Production Scheduling*

Sponsor: Agricultural Chemical Company

Students: Cindy H.Y. Wu and Jose Antonio Gonzalez Duhart Munoz de Cote

Advisor: Dr. Bruce Arntzen

Project: *Measuring a Port System's Capacity: A Case Study on a Southeast Asian Port*

Sponsor: CTL

Student: Jason Salminen

Advisors: Mr. James Rice and Dr. Ioannis Lagoudis

10:15 *Break & Networking*

10:30 **Session II**

Project: *Outbound Transportation Collaboration: Do-It-Yourself (DIY)*

Sponsor: Shippers in the Midwest

Student: Homayoun Taherian

Advisor: Dr. Chris Caplice

Project: *Analysis of Truckload Prices and Rejection Rates*

Sponsor: Third Party Logistics Company

Student: Yoo Joon Kim

Advisor: Dr. Chris Caplice

Project: *Ethanol Supply Chain and Industry Overview: More Harm than Good?*

Sponsor: CTL

Student: Sarah Bruce

Advisors: Drs. Edgar Blanco and Alexis Hickman

Project: *The "+Add" Model, A Supply Chain Framework for Aerospace and Defense Product Support*

Sponsor: Aerospace Company

Student: Mina Riwes

Advisor: Dr. Jonathan Byrnes

11:50 *Lunch*

1:00 **Session III**

Project: ***Communicating Optimization Model Results***
Sponsor: Semiconductor Company
Students: Drake Bailey and Dan Skempton
Advisor: Dr. Edgar Blanco

Project: ***Access to Medicines in the Private Sector of Zambia and Zimbabwe***
Sponsor: Pharmaceutical Company
Students: Brittany Johnson and Anand Bhatia
Advisor: Dr. Jarrod Goentzel

Project: ***Calculating Humanitarian Response Capacity***
Sponsor: CTL Humanitarian Response Lab
Students: Jian Wang and Kathryn Nishimura
Advisor: Dr. Jarrod Goentzel

Project: ***Foreign Trade Zones and Bonded Warehouses for Luxury Goods***
Sponsor: Luxury Products Company
Students: Todd Templeton and Nadya Petrova
Advisor: Dr. Roberto Perez-Franco

2:20 *Break & Networking*

2:45 **Session IV**

Project: ***A Decision Support Model for the Import of Luxury Goods into Brazil***
(GCLOG Project – 30 minutes)
Sponsor: Luxury Products Company
Students: Luiz Andrade, Edson Felipe Trevisan, Javier Gotschlich Praus, Wildor Vargas Leon
Advisor: Dr. Roberto Perez-Franco

Project: ***Right-Sizing Supply Chain Planning Functions in the Consumer Packaged Goods Industry***
Sponsor: Consumer Products Company
Students: Aura Castillo and Ethem Ucev
Advisor: Dr. Roberto Perez-Franco

Project: ***Absenteeism Prediction and Labor Optimization***
Sponsor: Major US Railroad
Students: Taylor Jensen and Bill Sun
Advisor: Dr. Tony Craig

Project: ***Supply Chain Network Optimization for a Low Volume Industrial Chemical Product***
Sponsor: Chemical Company
Students: Li Jin and Fred Dacha
Advisor: Dr. Tony Craig

5:00 *Adjourn*

From 5:00 to 7:00 there will be a RECEPTION FOR SPONSORS. Representatives from Thesis Sponsor companies and Supply Chain Exchange Partner companies are welcome to join the CTL staff for heavy hors d'oeuvres at a local pub.

Thursday 23 May 2013 – Faculty Club Dining Room 5

8:30 *Registration & Continental Breakfast*

9:00 **Session V**

Project: *Strategic Inventory Management of Externally Sourced Medical Devices*
Sponsor: Healthcare Products Company
Students: Nichole Hillstrom and Renato Malabanan
Advisor: Dr. Bruce Arntzen

Project: *How to Find Indicators for Scenario Monitoring?*
Sponsor: Chemical Company
Student: Zheng He
Advisor: Dr. Shardul Phadnis

Project: *Future Scenarios for Green Chemical Supply Chains*
Sponsor: Chemical Company
Students: Sekhar Putcha and Vibhu Arora
Advisor: Dr. Shardul Phadnis

Project: *A Simplified and Scalable Should-Cost Tool in the Oilfield Services Industry*
Sponsor: Oilfield Services Company
Students: Clay Mealer and Sung Hwan Park
Advisor: Dr. Shardul Phadnis

10:20 *Break & Networking*

10:45 **Session VI**

Project: *Characteristics of Spot-Market Rate Indexes for Truckload Transportation*
Sponsor: Third Party Logistics Company
Student: Andrew Bignell
Advisor: Dr. Chris Caplice

Project: *Assembling the Crystal Ball: Building a Demand Signal Repository to Forecast Demand*
Sponsor: Beverage Company
Students: Ahmed Rashad and Santiago Spraggon
Advisor: Dr. Shardul Phadnis

Project: *Multi-echelon Inventory Optimization for Fresh Produce*
Sponsor: Large Retailer
Students: Saran Limvorasak and Ivan Xu
Advisor: Dr. Francisco Jauffred

11:45 *Research Fest Wrap-up*

12:00 *Adjournment followed by a boxed lunch.*

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