



Short Course Chairman: Professor Honghi Tran • Director, Pulp and Paper Centre, University of Toronto

2020 Course Schedule

MONDAY, JANUARY 13, 2020	
Session 1	<u>Introduction to the Course</u>
8:00	Honghi Tran , University of Toronto, ON, Canada
8:20	1.1 KRAFT RECOVERY PROCESS Jim Brewster , Consultant, Brimfield, IL Honghi Tran , University of Toronto, ON, Canada
Session 2	<u>Recausticizing / Lime Reburning</u>
9:00	2.1 RECAUSTICING PRINCIPLES Honghi Tran , University of Toronto, ON, Canada
9:30	2.2 RECAUSTICIZING PRACTICE John Johnson , Valmet, Atlanta, GA
9:50	<i>Morning Break</i>
10:10	2.2 RECAUSTICIZING PRACTICE (Cont'd) John Johnson , Valmet, Atlanta, GA
10:50	2.3 CAUSTICIZING PLANT CONTROL AND OPTIMIZATION Thanh Trung , FITNIR Analyzers Inc., Vancouver, BC, Canada
11:30	Team Conference
11:50	<i>Lunch on Your Own</i>
13:10	2.4 LIME KILN: PRINCIPLES AND CHEMISTRY Richard Manning , KFS, High Wycombe, UK Honghi Tran , University of Toronto, ON, Canada
13:30	2.5 LIME KILN: EQUIPMENT AND MAINTENANCE Glenn Hanson , Industrial Kiln & Dryer Group, Louisville, KY
14:30	<i>Afternoon Break</i>
14:50	2.6 LIME KILN: COMBUSTION AND PROCESS OPTIMIZATION Richard Manning , KFS, High Wycombe, UK
15:30	Recaust & Lime Kiln Operations Workshop
16:30	Homework & Networking
17:15-18:00	Reception

TUESDAY, JANUARY 14, 2020

8:00		Team Presentations Honghi Tran , University of Toronto, ON, Canada
Session 3		<u>Black Liquor Evaporation</u>
8:30	3.1	BROWNSTOCK WASHING PRINCIPLES AND OPERATION Peter Hart , WestRock, Atlanta, GA
9:10	3.2	BLACK LIQUOR PROPERTIES & EVAPORATOR FOULING Niko DeMartini , University of Toronto, ON, Canada
9:50		<i>Morning Break</i>
10:10	3.3	EVAPORATORS – PRINCIPLES & EQUIPMENT Jarmo Kaila , Andritz Inc., Atlanta, GA
10:40	3.4	EVAPORATORS – BOIL-OUT FUNDAMENTALS Niko DeMartini , University of Toronto, ON, Canada
10:50	3.5	EVAPORATORS – TROUBLESHOOTING & OPTIMIZATION Jarmo Kaila , Andritz Inc., Atlanta, GA
11:30		TEAM CONFERENCE
11:50		<i>Lunch on Your Own</i>
13:10	3.6	TALL OIL SOAP RECOVERY Doug Foran , Kraton Chemical, LLC, Savannah, GA
13:50	3.7	FOUL CONDENSATE STRIPPING Paul Johnson , Lundberg, Inc. Bellevue, WA
14:30		<i>Afternoon Break</i>
14:50	3.8	NCG HANDLING Paul Johnson , Lundberg, Inc. Bellevue, WA
15:30		Evaporator Operations Workshop
16:30 - 17:15		Homework & Networking

WEDNESDAY, JANUARY 15, 2020

8:00		Introduction to Day 3 & Team Presentation Honghi Tran , University of Toronto, ON, Canada
Session 4		<u>Recovery Boilers</u>
8:30	4.1	RECOVERY BOILER EQUIPMENT AND ISSUES Jim Brewster , Consultant, Brimfield, IL
9:10	4.2	BLACK LIQUOR DROPLET BURNING Mikko Hupa , Åbo Akademi University, Turku, Finland
9:50		<i>Morning Break</i>
10:10	4.3	BLACK LIQUOR AND AIR DELIVERY Andrew Jones , International Paper, Loveland, OH
10:50	4.4	RECOVERY BOILER CHEMICAL PRINCIPLES Mikko Hupa , Åbo Akademi University, Turku, Finland
11:30		Team Conference
11:50		<i>Lunch on Your Own</i>
13:10	4.5	DEPOSIT FORMATION, IMPACT AND CONTROL Honghi Tran , University of Toronto, ON, Canada
13:50	4.6	RECOVERY BOILER OPTIMIZATION Andrew Jones , International Paper, Loveland, OH
14:30		<i>Afternoon Break</i>
14:50	4.7	RECOVERY BOILER WATER TREATMENT Bob Bartholomew , Sheppard T. Powell Associates, Baltimore, MD
15:30		Recovery Boiler Operations Workshop
16:30		Homework/ Networking
17:15-18:00		Reception

THURSDAY, JANUARY 16, 2020

8:00 Introduction to Day 4 & Team Presentation
Honghi Tran, University of Toronto, ON, Canada

Session 5 [Recovery Process Issues](#)

8:30 5.1 RECOVERY AND UTILITY MANAGEMENT
Jim Brewster, Consultant, Brimfield, IL

9:10 5.2 CORROSION & CRACKING IN RECOVERY EQUIPMENT
W. B. A. (Sandy) Sharp, SharpConsultant, Columbia, MD

9:50 *Morning Break*

10:10 5.3 RECOVERY BOILER INSPECTION STRATEGY
W. B. A. (Sandy) Sharp, SharpConsultant, Columbia, MD

10:50 5.4 EMISSIONS FROM RECOVERY PROCESSES
Mikko Hupa, Åbo Akademi University, Turku, Finland
Honghi Tran, University of Toronto, ON, Canada

11:30 Team Conference

11:50 *Lunch on Your Own*

Session 6 [Hot Topics:](#)

13:10 6.1 SOOTBLOWER OPTIMIZATION AND MAINTENANCE
Danny Tandra, Clyde Bergemann, Inc., Atlanta, GA

13:50 6.2 HARD SCALE FORMATION IN GREEN LIQUOR HANDLING EQUIPMENT
Peter Hart, WestRock, Atlanta, GA
Honghi Tran, University of Toronto, ON, Canada

14:30 *Afternoon Break*

14:50 6.3 NON-PROCESS ELEMENTS - ACCUMULATION, IMPACT AND CONTROL
Honghi Tran, University of Toronto, ON, Canada

15:30 Recovery Process Workshop

16:20 CONCLUDING REMARKS
Honghi Tran, University of Toronto, ON, Canada