

Course Chairs: Professor Honghi Tran, University of Toronto and Dr. Andrew K. Jones, Consultant
Course Co-Sponsors: The Steam & Power Committee of TAPPI's Engineering Division and the Alkaline Pulping Committee of TAPPI's Pulp Manufacture Division

Course Schedule

MONDAY, JANUARY 11, 2027

Session 1		**Introduction to the Course**
7:50		**Honghi Tran,** University of Toronto, ON
8:30	1.1	KRAFT RECOVERY PROCESS **Jim Brewster**, Consultant, Brimfield, IL **Andrew Jones,** SHB Power Plant Engineering, Cincinnati, OH
Session 2		**Recausticizing / Lime Reburning**
9:00	2.1	RECAUSTICING PRINCIPLES **Thanh Trung,** FITNIR, A Voith Company, Vancouver, BC
9:30	2.2	RECAUSTICIZING PRACTICE **John Johnson,** Valmet Partners, Trussville, AL
9:50		*Morning Break*
10:10	2.2	RECAUSTICIZING PRACTICE (Cont'd) **John Johnson,** Valmet Partners, Trussville, AL
10:50	2.3	CAUSTICIZING PLANT CONTROL AND OPTIMIZATION **Thanh Trung,** FITNIR, A Voith Company, Vancouver, BC
11:30		Team Conference
11:50		*Lunch on Your Own*
13:10	2.4	LIME KILN PRINCIPLES AND CHEMISTRY **Honghi Tran,** University of Toronto, ON
13:40	2.5	LIME KILN: EQUIPMENT AND MAINTENANCE **Glenn Hanson,** Metso Minerals Industries, Inc., York, PA
14:30		*Afternoon Break*
14:50	2.6	LIME KILN OPERATING ISSUES AND PREVENTION **Honghi Tran,** University of Toronto, ON
15:30		Recaust & Lime Kiln Operations Workshop
16:30		Homework & Networking
17:10-17:45		Reception

TUESDAY, JANUARY 12, 2027		
8:00		Day 1 Homework Team Presentations
Session 3		**Black Liquor Evaporation**
8:30	3.1	BROWNSTOCK WASHING PRINCIPLES AND OPERATION **Jim Brewster**, Consultant, Brimfield, IL
9:10	3.2	BLACK LIQUOR PROPERTIES **Niko DeMartini,** University of Toronto, ON
9:30	3.3	EVAPORATOR PRINCIPLES & EQUIPMENT **Jarmo Kaila,** Andritz Inc., Atlanta, GA
9:50		*Morning Break*
10:10	3.4	EVAPORATOR TROUBLESHOOTING & OPTIMIZATION **Jarmo Kaila,** Andritz Inc., Atlanta, GA
10:50	3.5	EVAPORATOR FOULING & BOIL-OUTS **Niko DeMartini,** University of Toronto, ON
11:30		TEAM CONFERENCE
11:50		*Lunch on Your Own*
13:10	3.6	FOUL CONDENSATE STRIPPING **Ann Plank,** Lundberg Jansen Technologies, Inc., Kirkland, WA
13:50	3.7	TALL OIL/BIO-PRODUCT RECOVERY **Jarmo Kaila,** Andritz Inc., Atlanta, GA
14:30		*Afternoon Break*
14:50	3.8	NON CONDENSIBLE GAS HANDLING **Ann Plank**, Lundberg Jansen Technologies, Inc., Kirkland, WA
15:30		Evaporator Operations Workshop
16:30 - 17:15		Homework & Networking

WEDNESDAY, JANUARY 13, 2027		
8:00		Day 2 Homework Team Presentations
Session 4		**Recovery Boilers**
8:30	4.1	RECOVERY BOILER EQUIPMENT AND ISSUES **Jim Brewster**, Consultant, Brimfield, IL
9:10	4.2	BLACK LIQUOR BURNING **Honghi Tran,** University of Toronto, ON
9:50		*Morning Break*
10:10	4.3	BLACK LIQUOR AND AIR DELIVERY **Andrew Jones,** SHB Power Plant Engineering, Cincinnati, OH
10:50	4.4	DEPOSIT FORMATION, IMPACT AND CONTROL **Danny Tandra,** Clyde Bergemann, Inc., Atlanta, GA
11:30		Team Conference
11:50		*Lunch on Your Own*
13:10	4.5	RECOVERY BOILER OPTIMIZATION **Andrew Jones,** SHB Power Plant Engineering, Cincinnati, OH
13:50	4.6	RECOVERY BOILER INSPECTION **Douglas Singbeil,** GreenTree Strategies, Vancouver, BC
14:30		*Afternoon Break*
14:50	4.7	RECOVERY BOILER WATER TREATMENT **Bob Bartholomew,** Sheppard T. Powell Associates, Baltimore, MD
15:30		Recovery Boiler Operations Workshop
16:30 - 17:15		Homework & Networking

THURSDAY, JANUARY 14, 2027

8:00		Day 3 Homework Team Presentations
Session 5		**Recovery Process Issues**
8:30	5.1	RECOVERY AND UTILITY MANAGEMENT **Jim Brewster**, Consultant, Brimfield, IL
9:10	5.2	DAMAGE MECHANISMS IN CHEMICAL RECOVERY EQUIPMENT **Douglas Singbeil,** GreenTree Strategies, Vancouver, BC
9:50		*Morning Break*
10:10	5.3	SAFETY HAZARDS IN THE RECOVERY CYCLE **Andrew Jones,** SHB Power Plant Engineering, Cincinnati, OH
10:50	5.4	SOOTBLOWER OPERATION, MAINTENANCE AND OPTIMIZATION **Danny Tandra,** Clyde Bergemann, Inc., Atlanta, GA
11:30		Team Conference
11:50		*Lunch on Your Own*
13:10	5.5	ELECTROSTATIC PRECIPITATORS – OPERATION AND OPTIMIZATION **Ivan Sretenovic,** Process Barron, Toronto, ON
13:50	5.6	OPTIMIZING WATER USAGE IN THE CAUSTICIZING PLANT **Sierra Boone**, Kadant Black Clawson LLC, Lebanon, OH
14:30		*Afternoon Break*
14:50	5.7	NON-PROCESS ELEMENTS - ACCUMULATION, IMPACT AND CONTROL **Honghi Tran**, University of Toronto, ON
15:30		Recovery Process Workshop
16:20		CONCLUDING REMARKS **Honghi Tran,** University of Toronto, ON